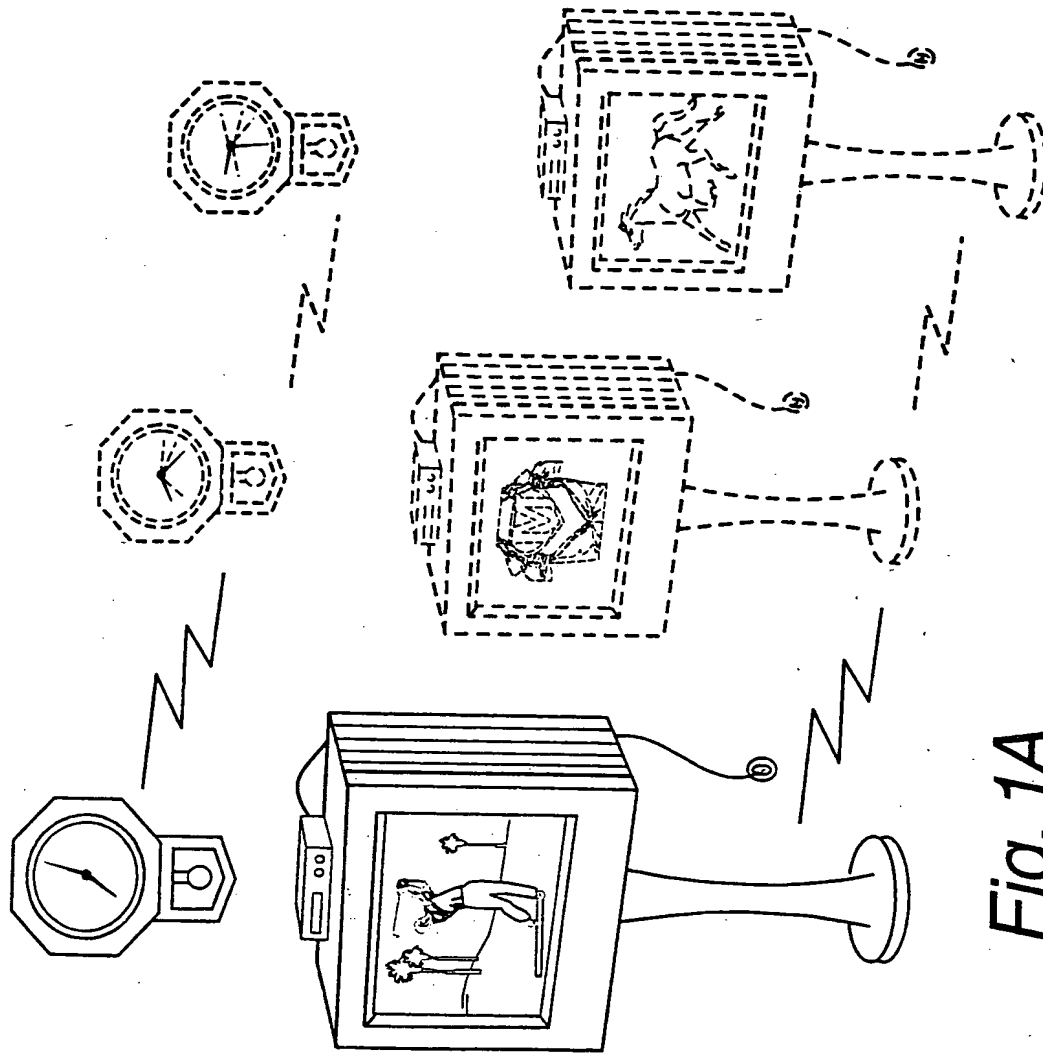
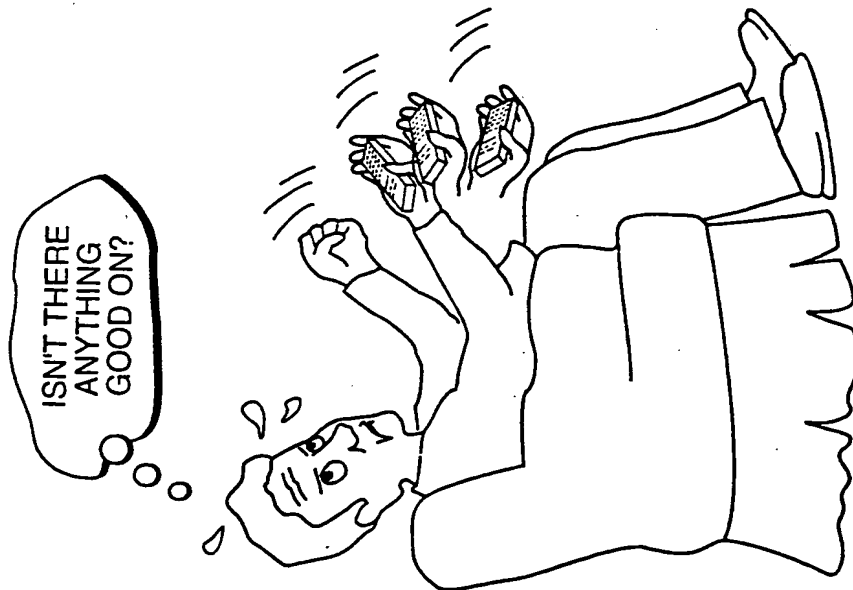


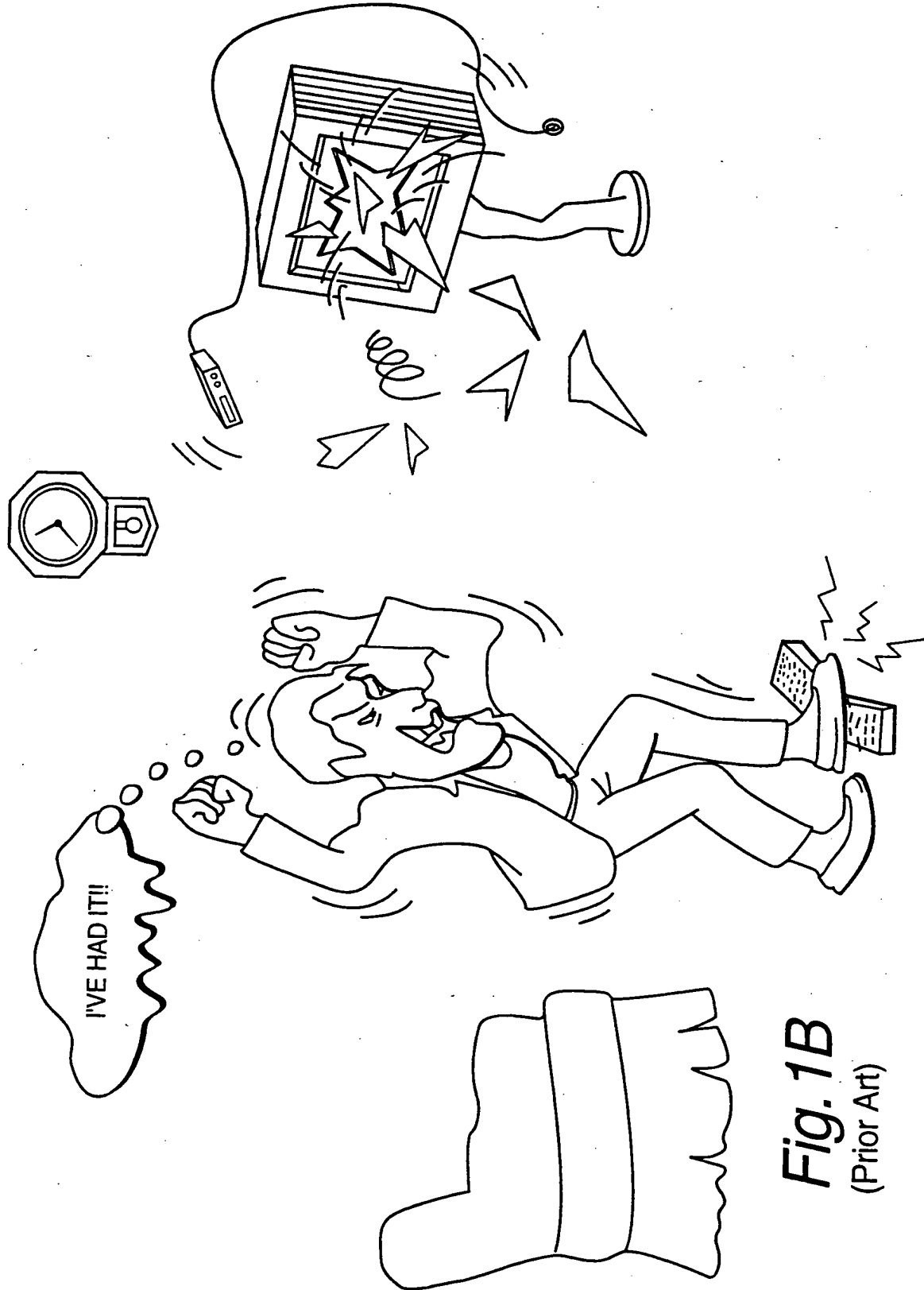
|           |              |          |
|-----------|--------------|----------|
| APPROVED  | O.G. FIG. 51 |          |
| BY        | CLASS        | SUBCLASS |
| DRAFTSMAN | 705          | 67       |



**Fig. 1A**  
(Prior Art)

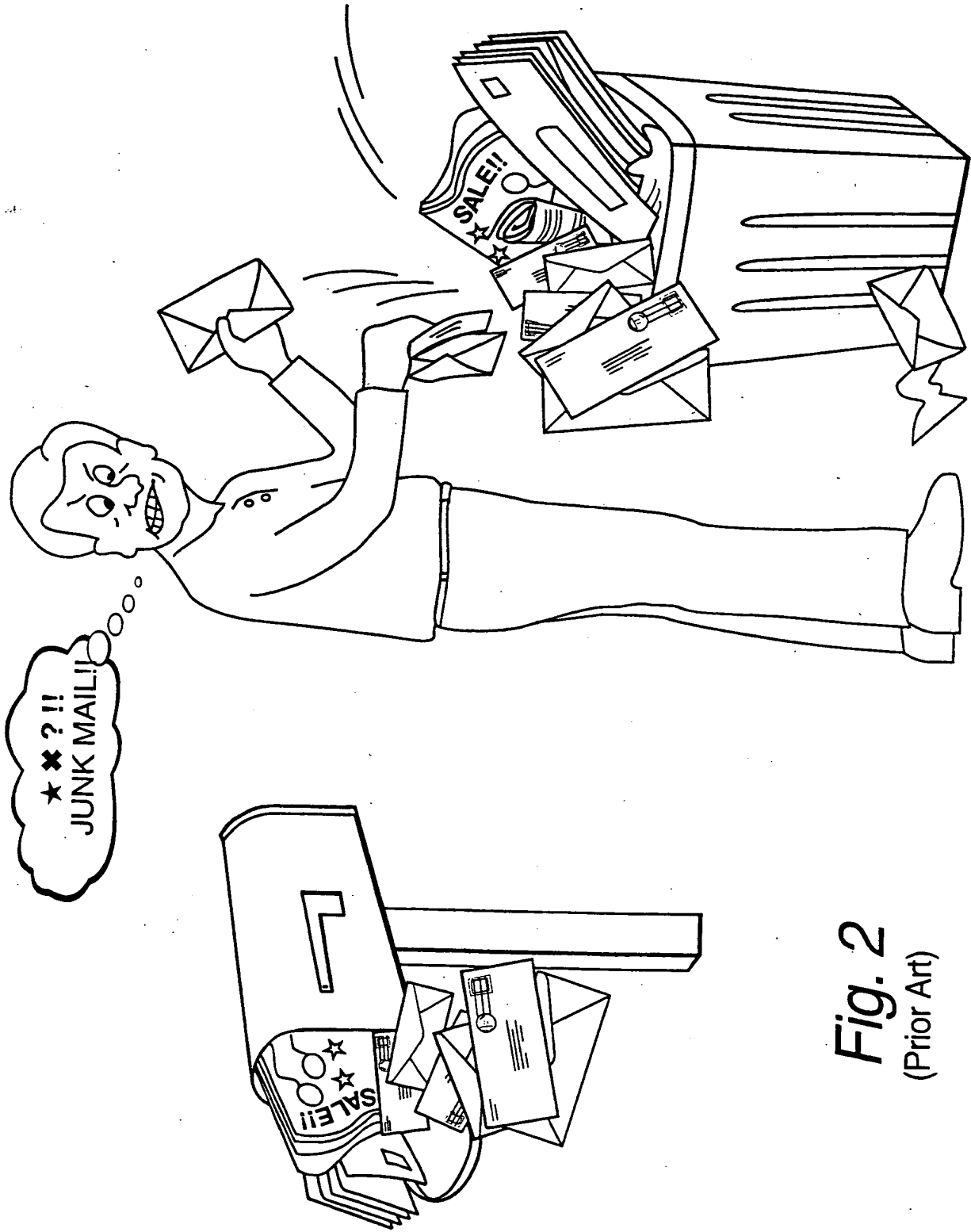


|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |



**Fig. 1B**  
(Prior Art)

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |



**Fig. 2**  
(Prior Art)

000020\*69660600

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

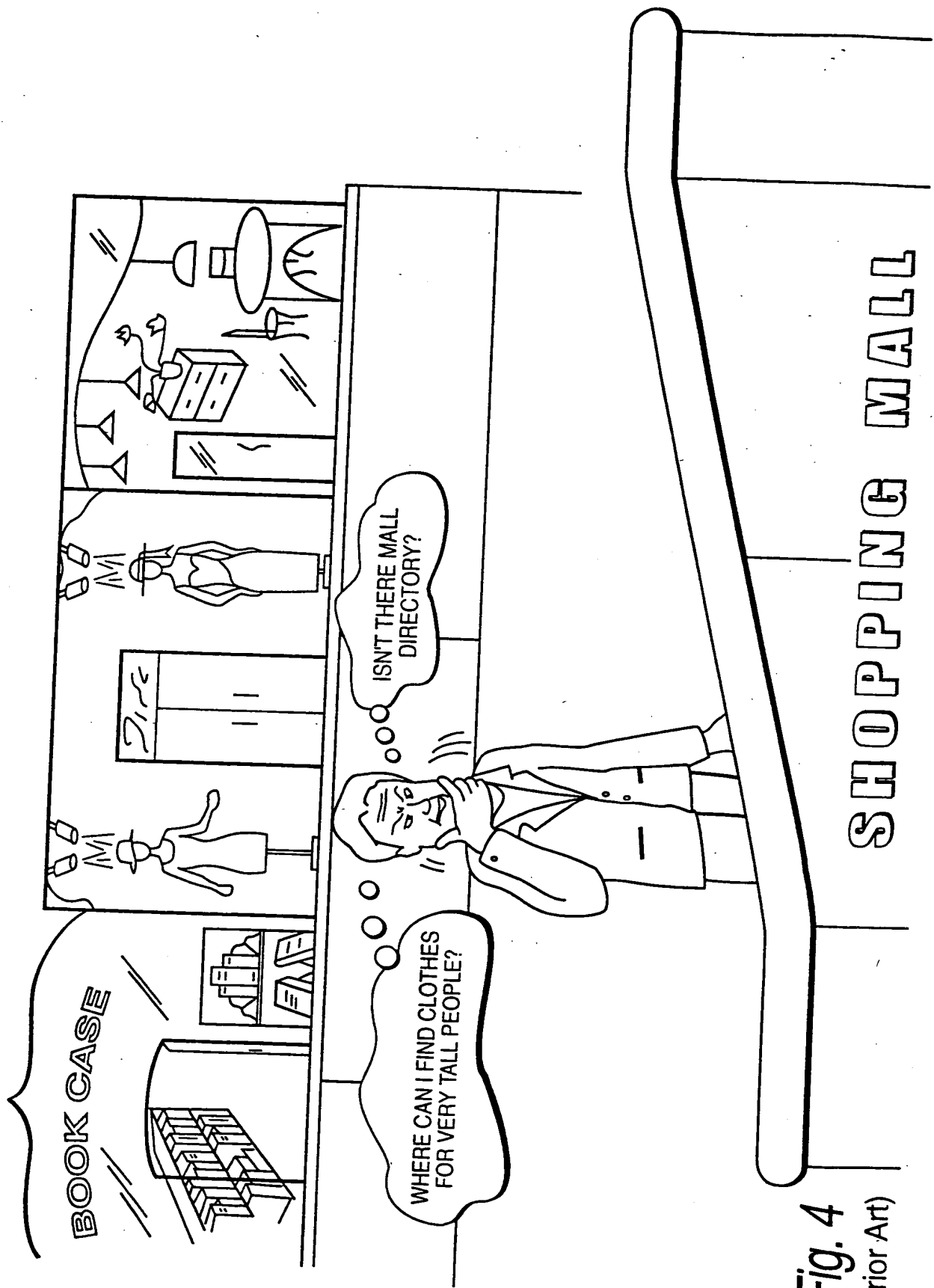
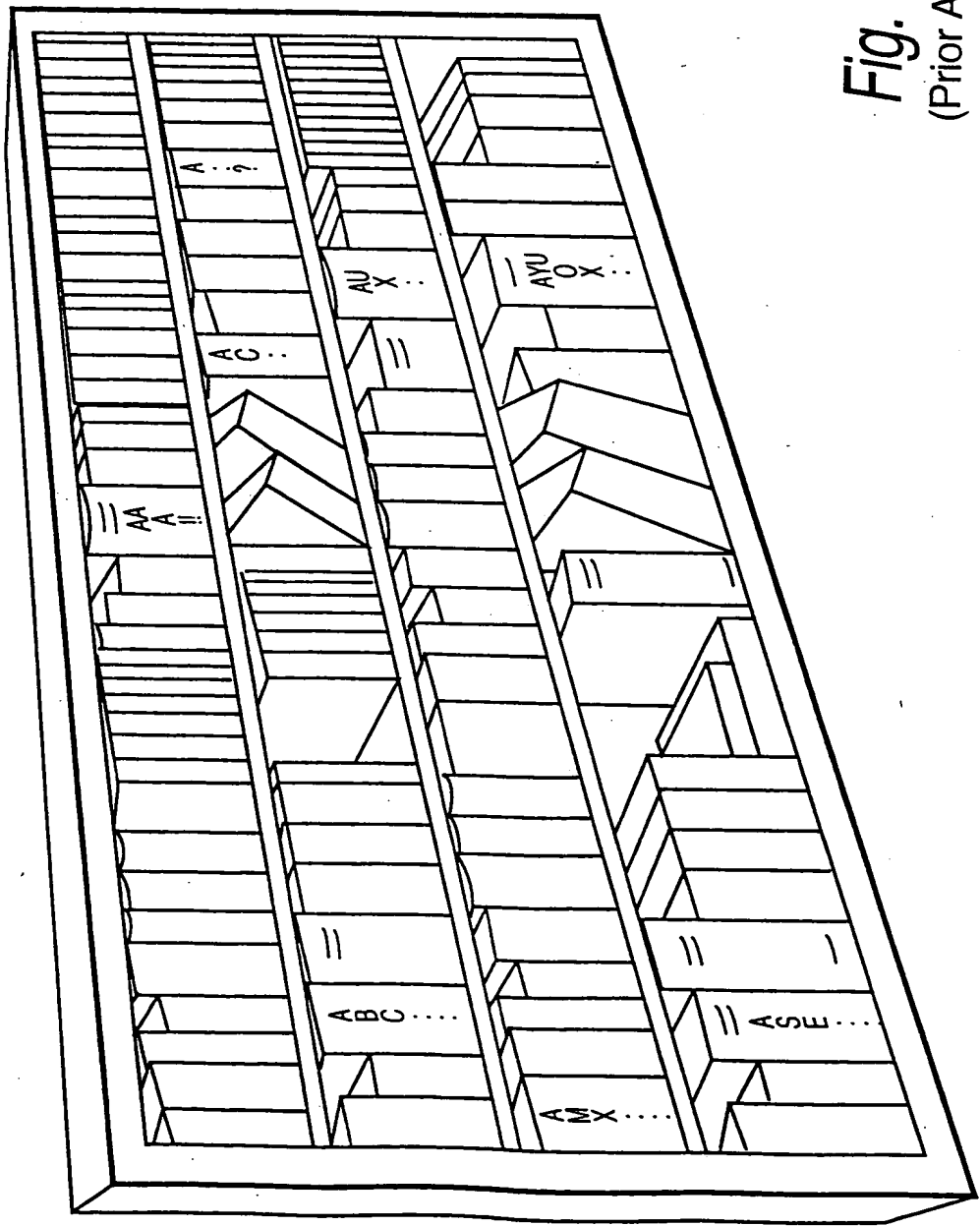
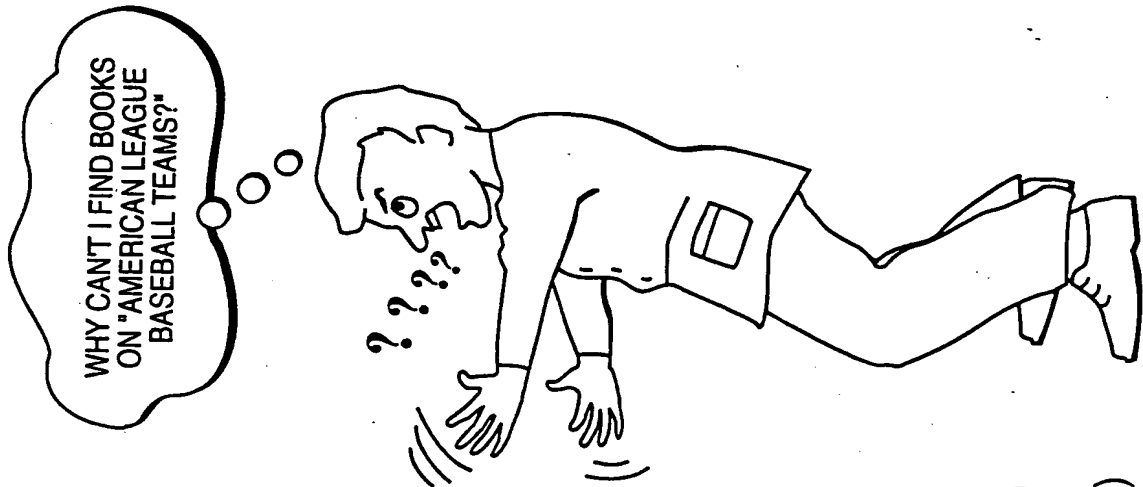


Fig. 4  
(Prior Art)

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |



**Fig. 3**  
(Prior Art)

000020 69266600

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

001020 69266160

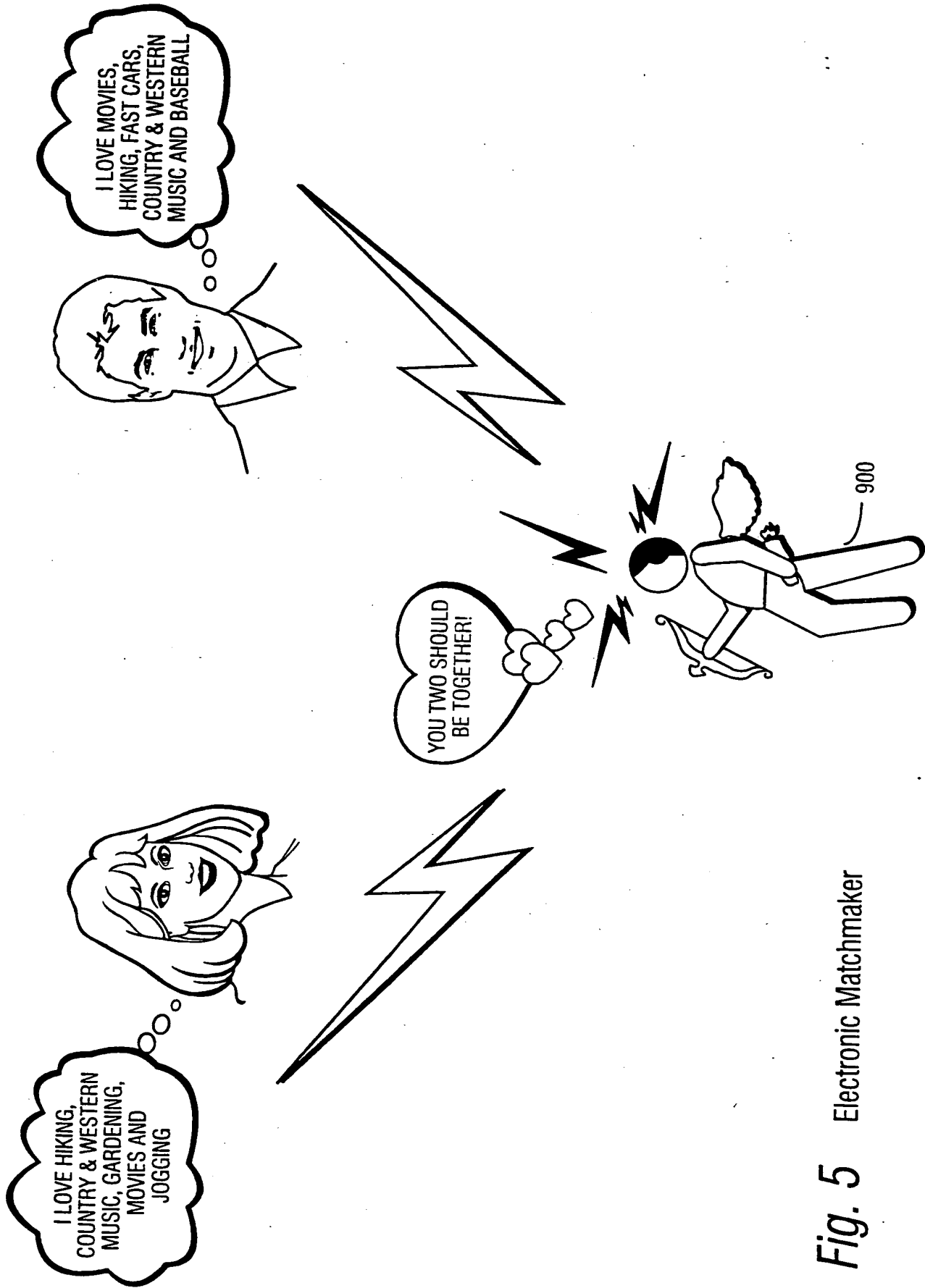
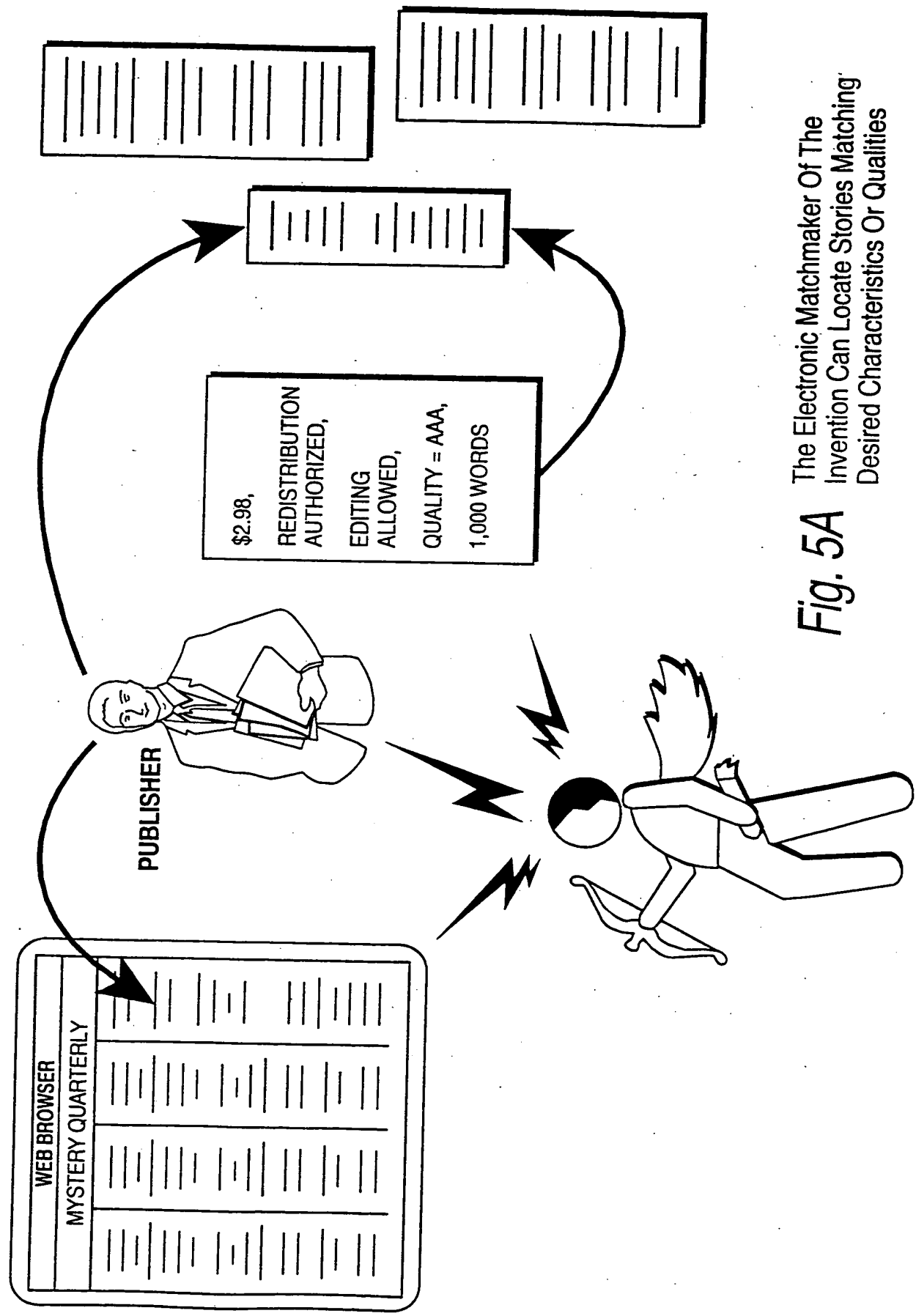


Fig. 5 Electronic Matchmaker

001020\* 0900000

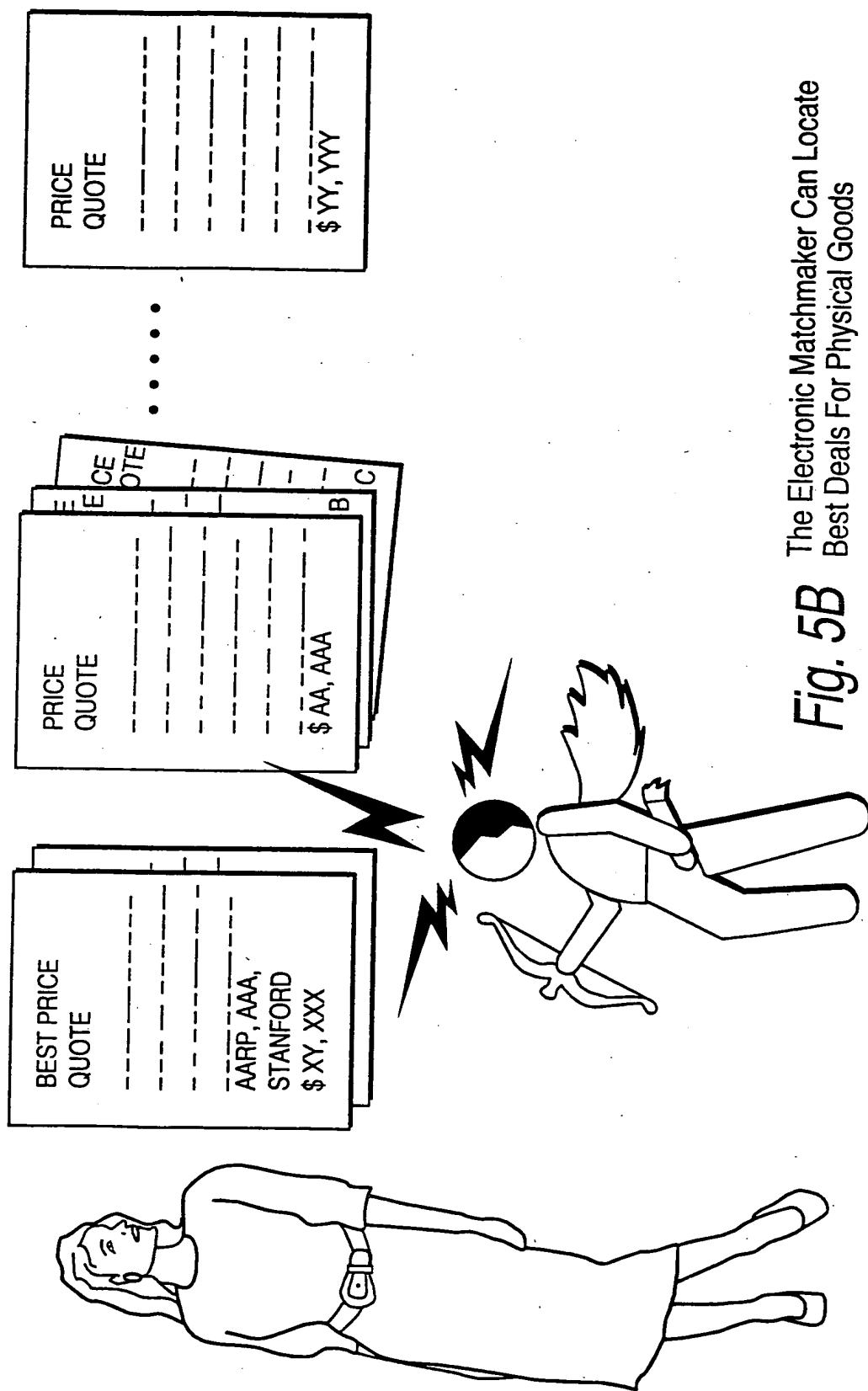
|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |



**Fig. 5A**  
The Electronic Matchmaker Of The  
Invention Can Locate Stories Matching  
Desired Characteristics Or Qualities

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

00000000000000000000

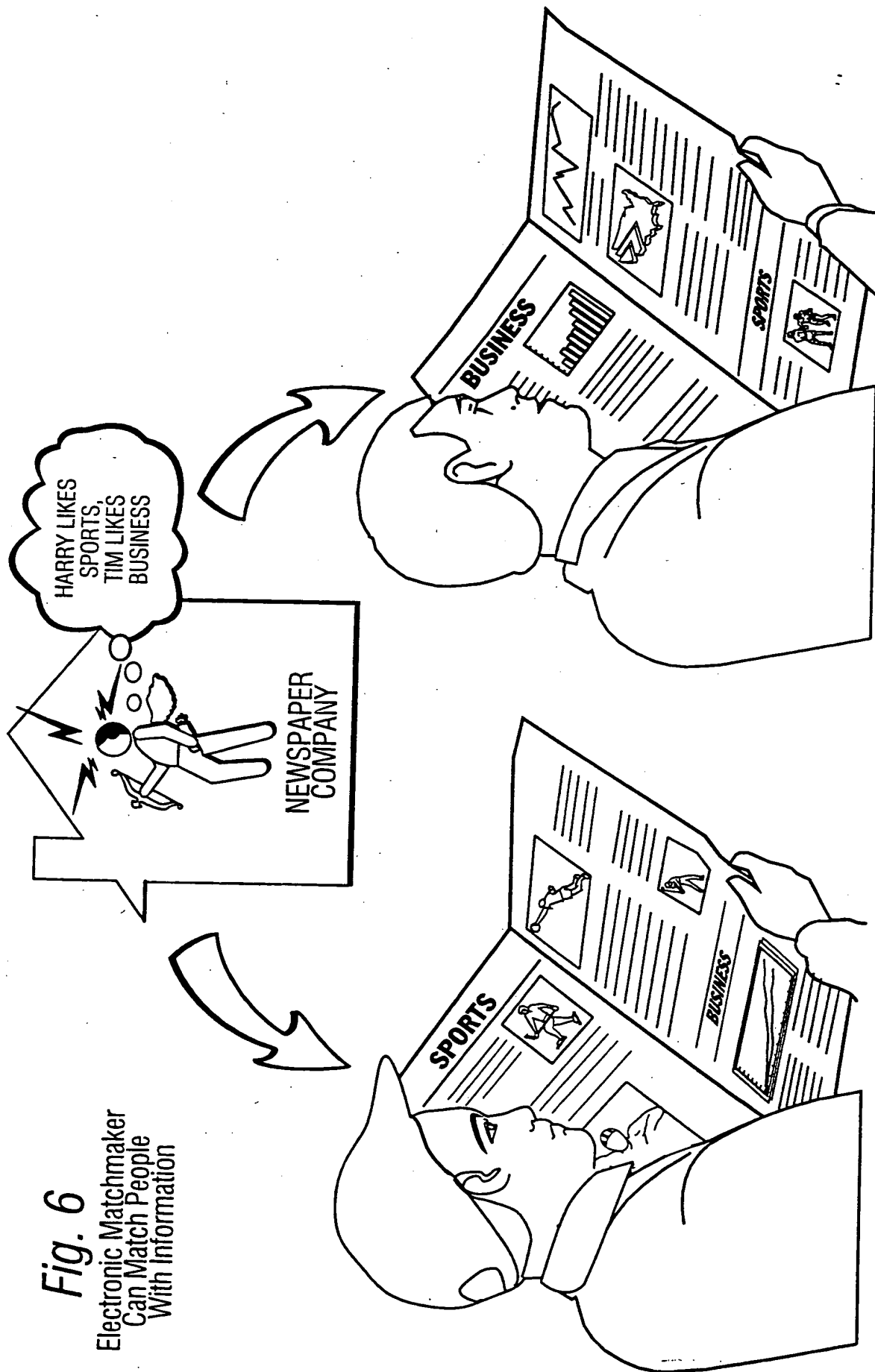


**Fig. 5B** The Electronic Matchmaker Can Locate Best Deals For Physical Goods



001020\*69266460




|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

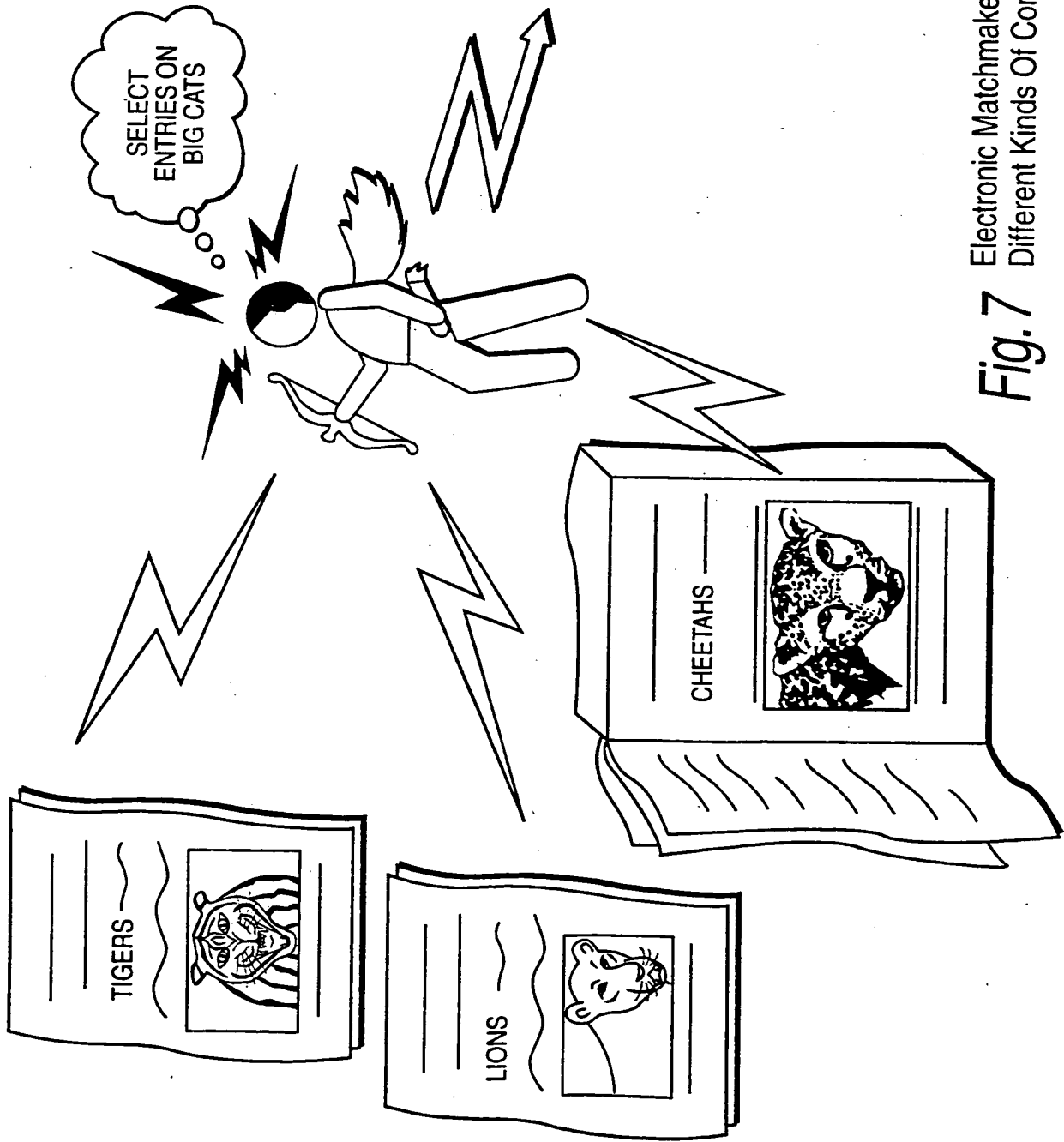


**Fig. 6**  
Electronic Matchmaker  
Can Match People  
With Information

000020-69286160

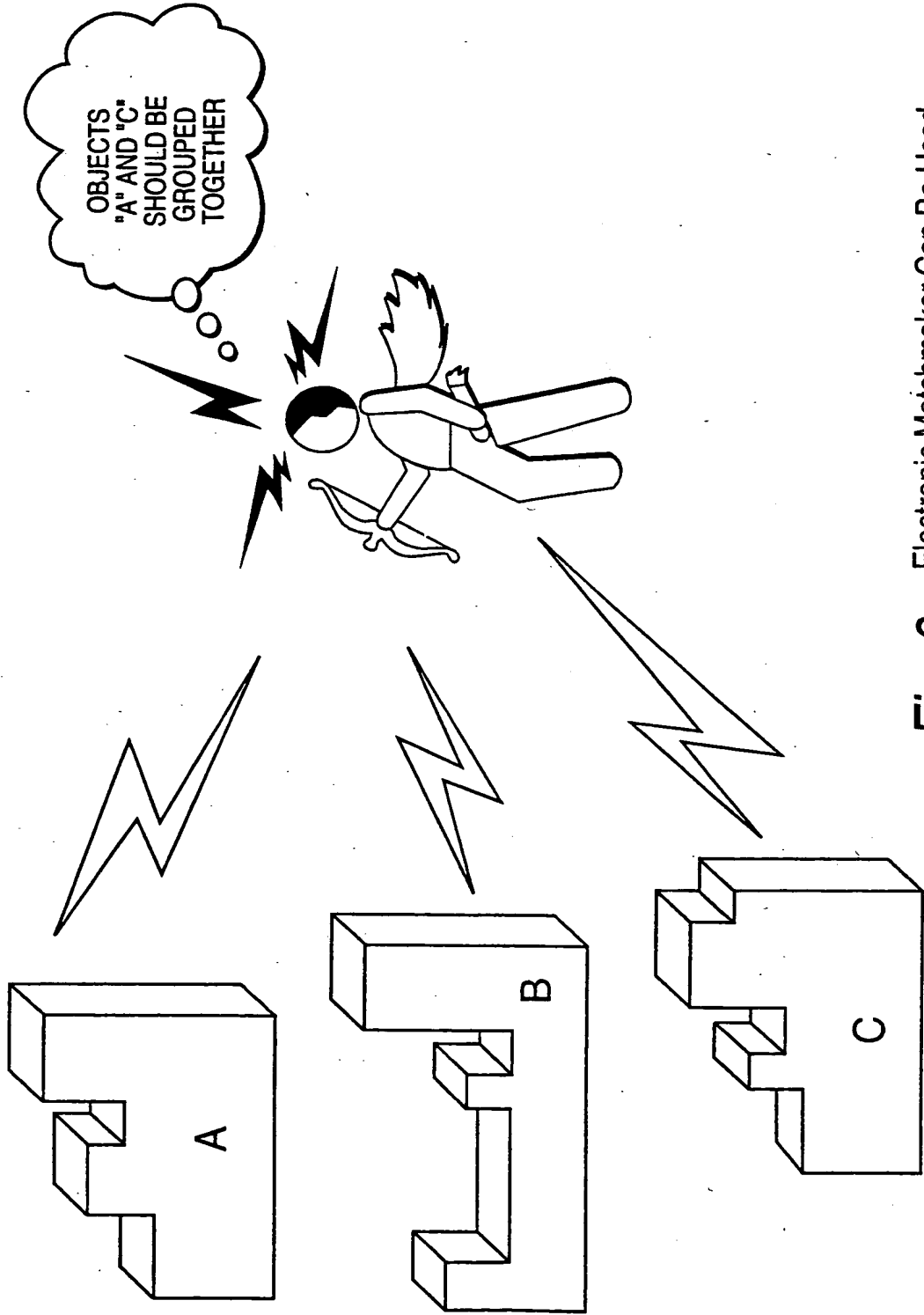
|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

|  |       |
|--|-------|
| <b>BIG CATS</b>  | _____ |
|  | _____ |
|  | _____ |
|  | _____ |
| <b>TIGERS</b>  | _____ |
|   | _____ |
| _____  | _____ |
| _____  | _____ |
| <b>LIONS</b>   | _____ |
|   | _____ |
| _____  | _____ |
| _____  | _____ |
| <b>CHEETAHS</b>  | _____ |
|  | _____ |
| _____  | _____ |
| _____  | _____ |



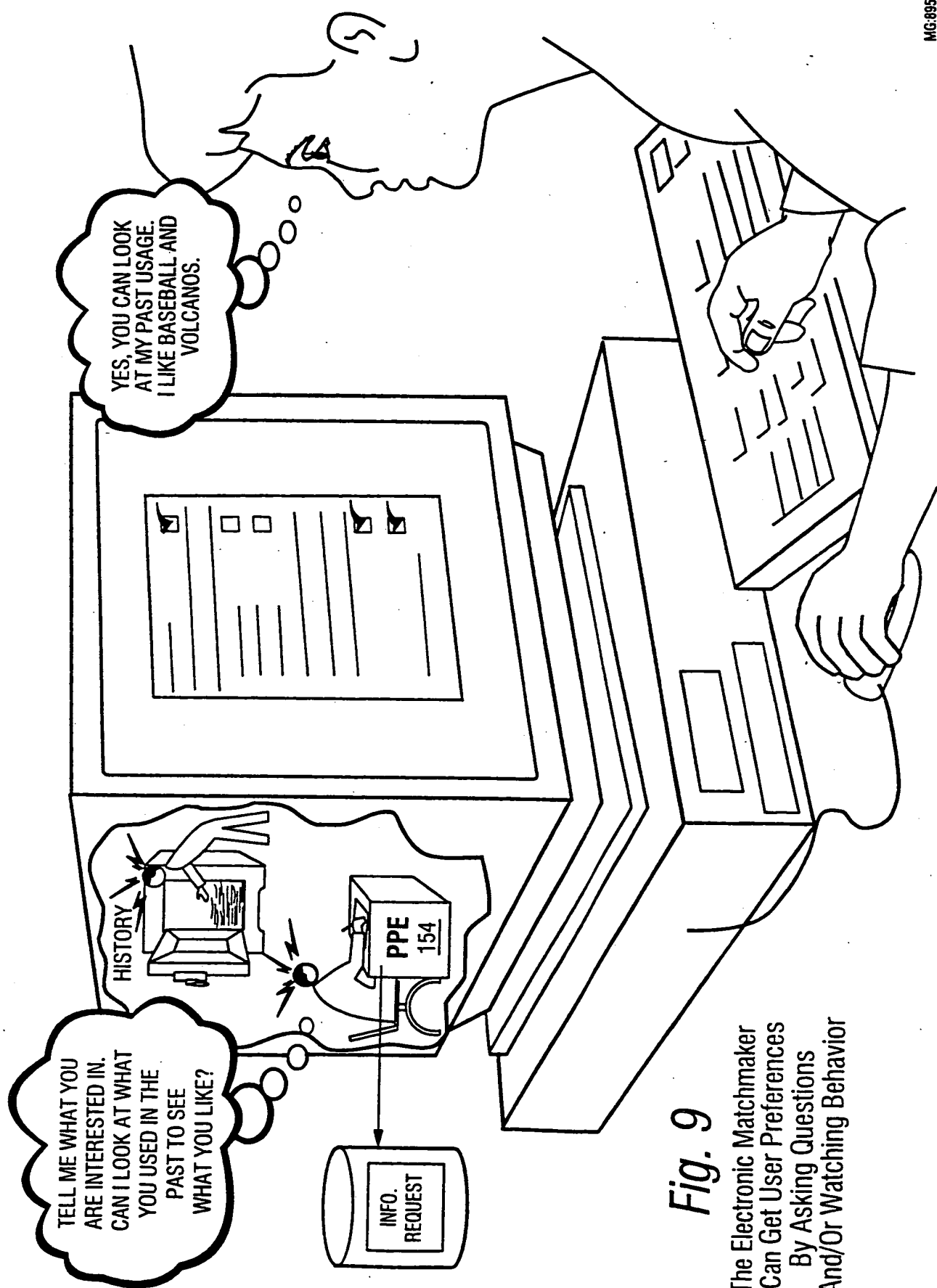
**Fig. 7** Electronic Matchmaker Can Match Different Kinds Of Content

|          |           |          |
|----------|-----------|----------|
| APPROVED | O.G. FIG. |          |
| BY       | CLASS     | SUBCLASS |
| DATE     |           |          |



**Fig. 8** Electronic Matchmaker Can Be Used For Matching Any Kinds of Things

001020 69286h60



**Fig. 9**

The Electronic Matchmaker  
Can Get User Preferences  
By Asking Questions  
And/Or Watching Behavior

001020 6566660

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

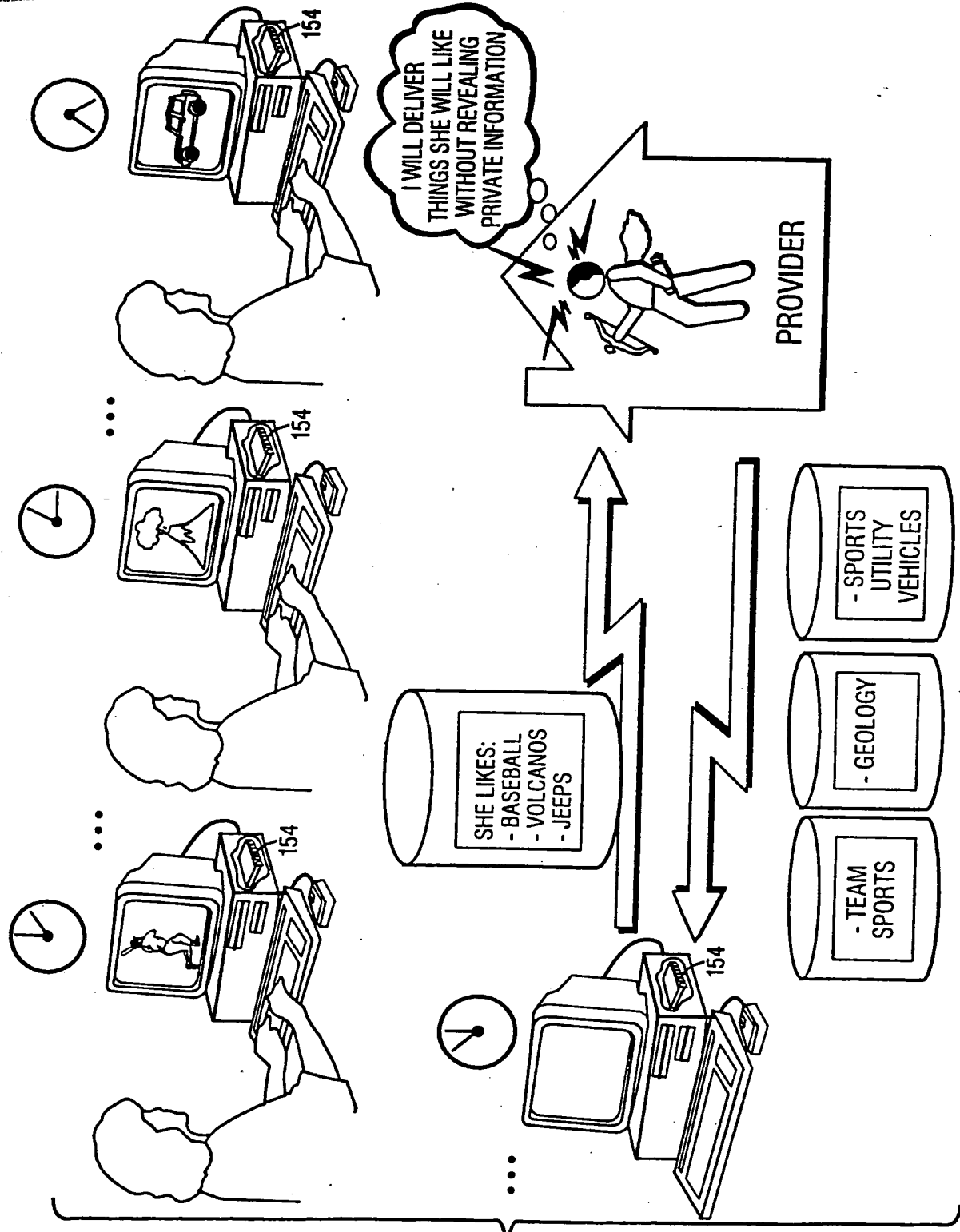
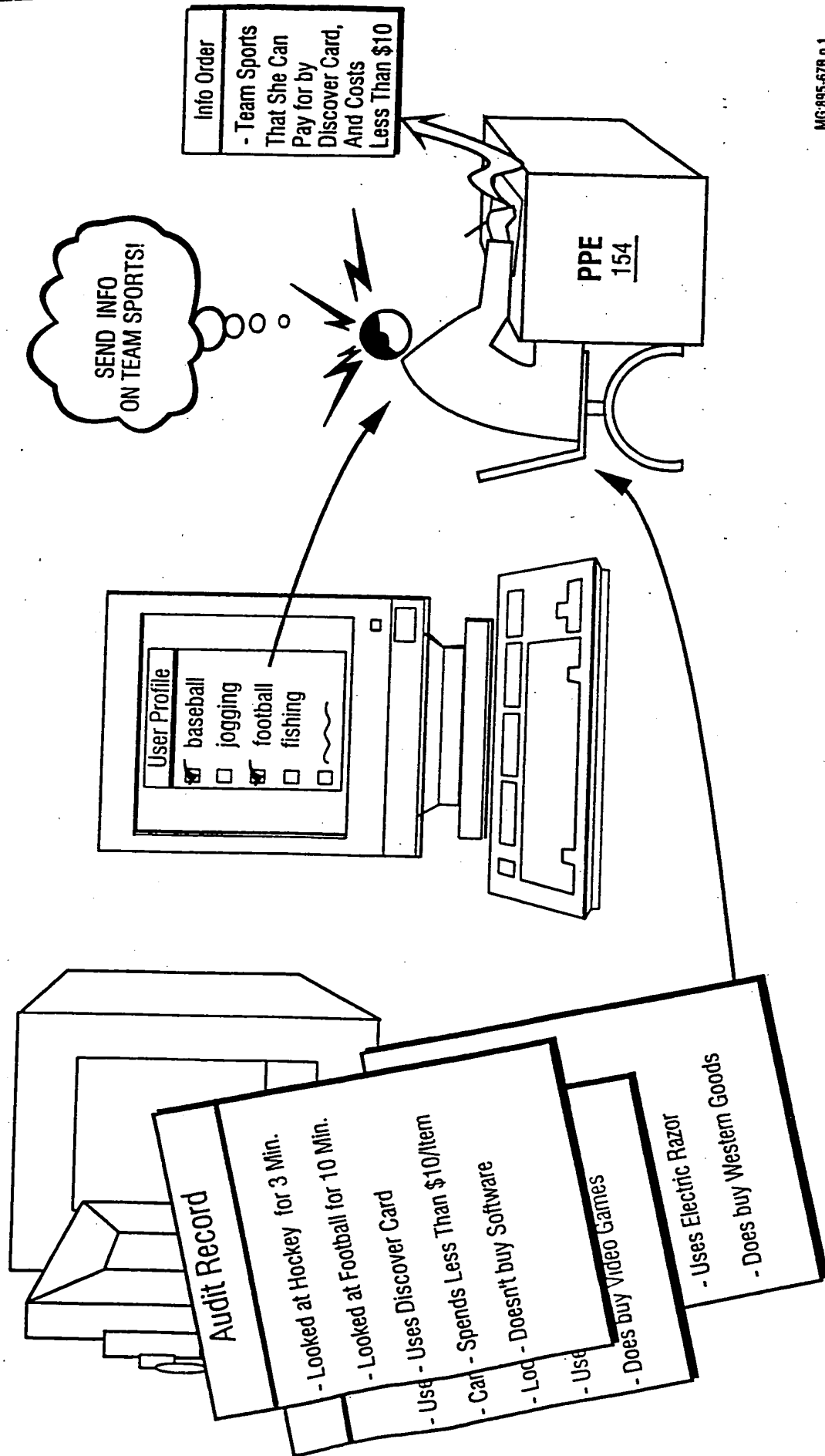


Fig. 10  
Example Electronic  
Matchmaking Process

Fig. 11

Example User Rights Management Information  
By Electronic Matchmaker



001020\* 69E86660

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

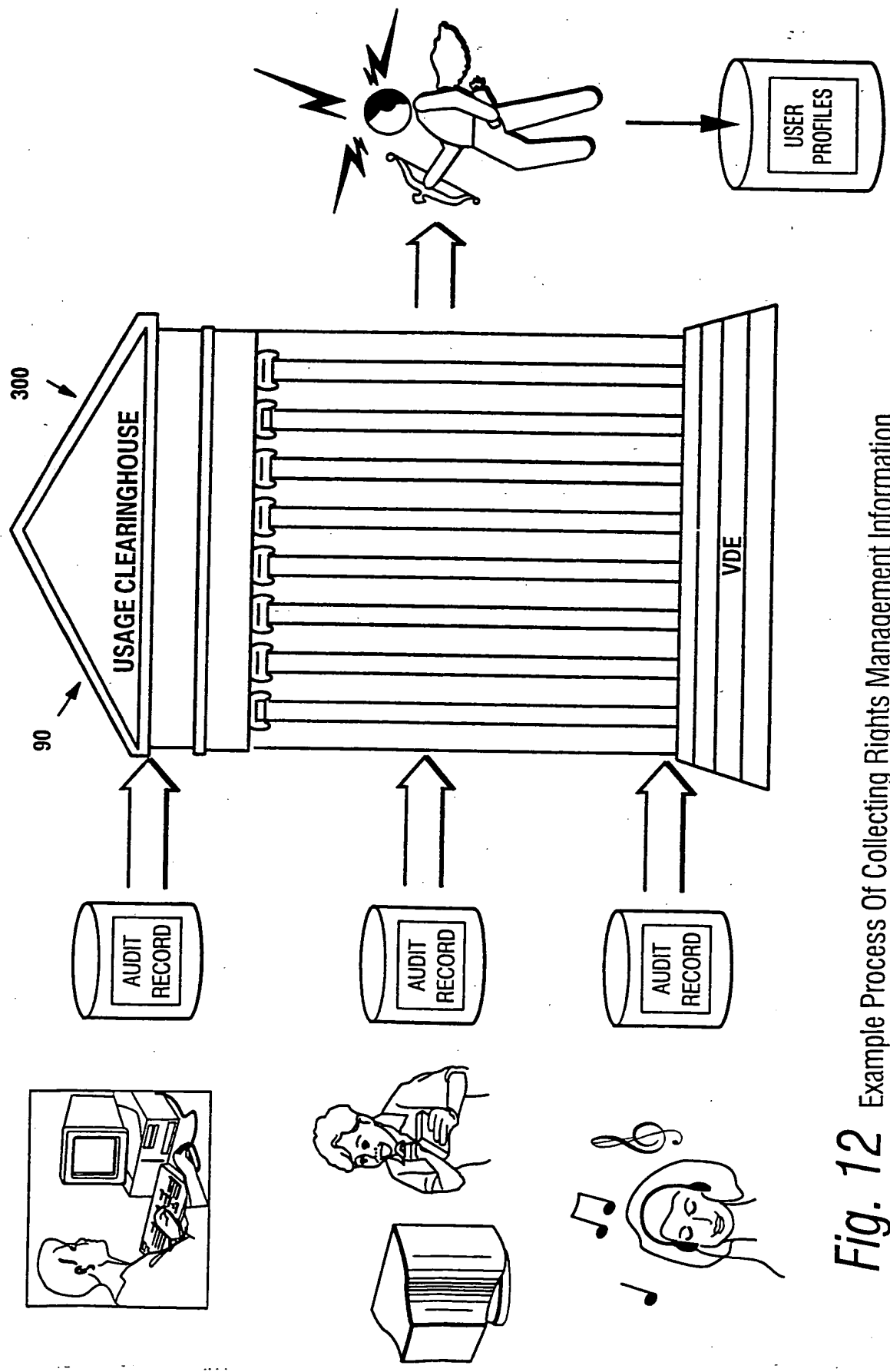


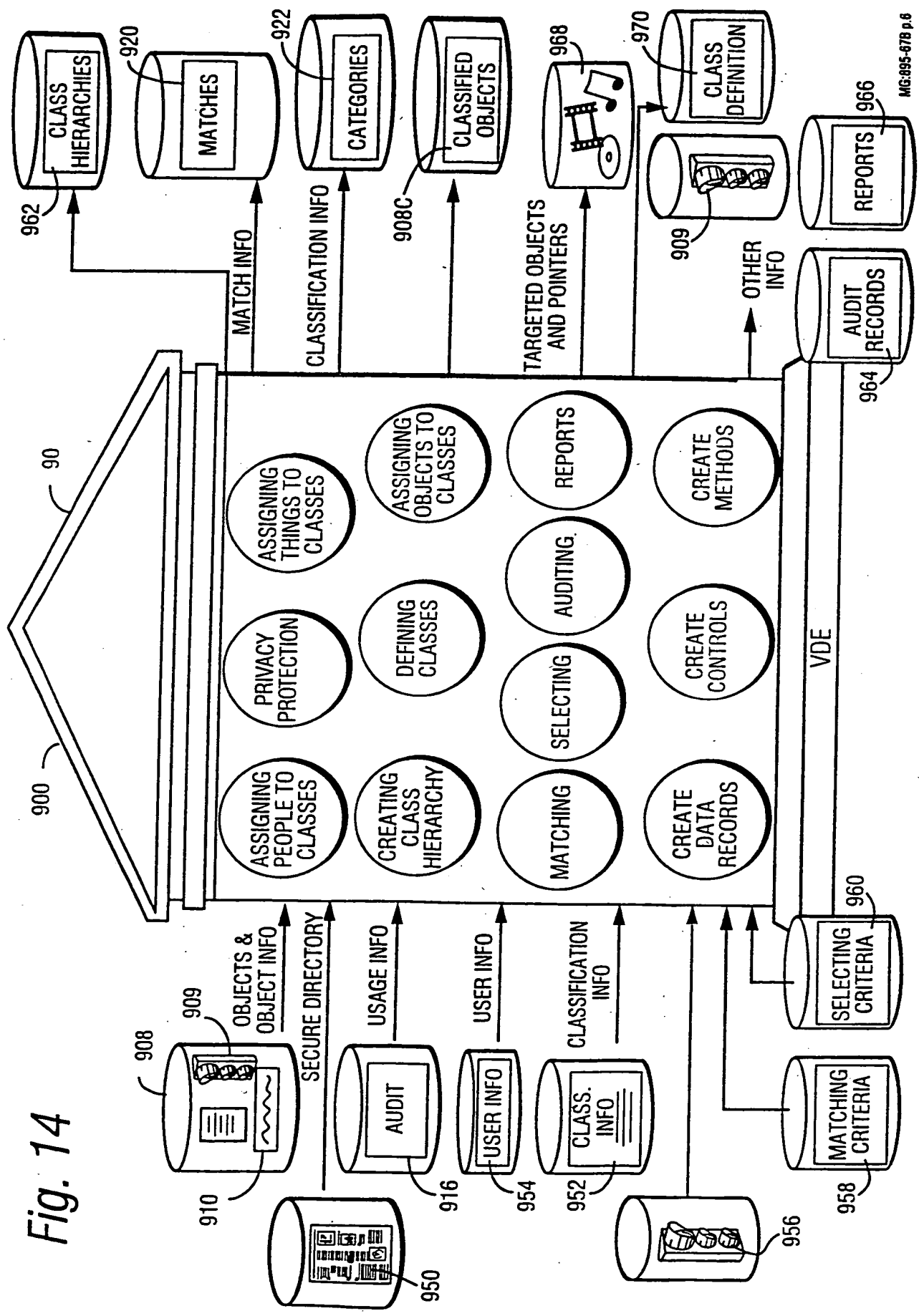
Fig. 12 Example Process Of Collecting Rights Management Information





000020 69266660

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | U.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |



000020\*69686160

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

**Fig. 14(A)**  
Example Matching and Classification  
Commerce Utility System 900

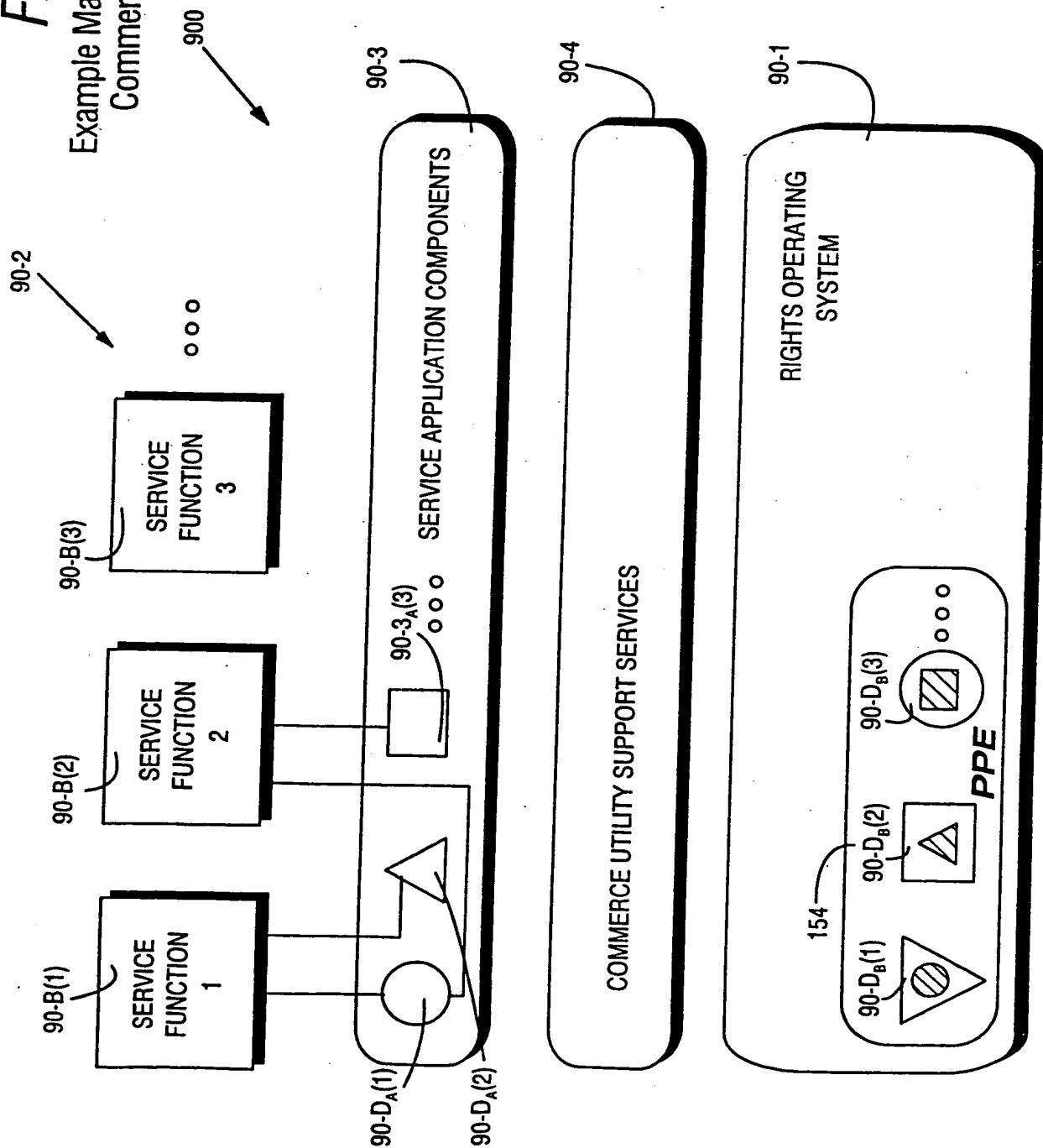


Fig 15

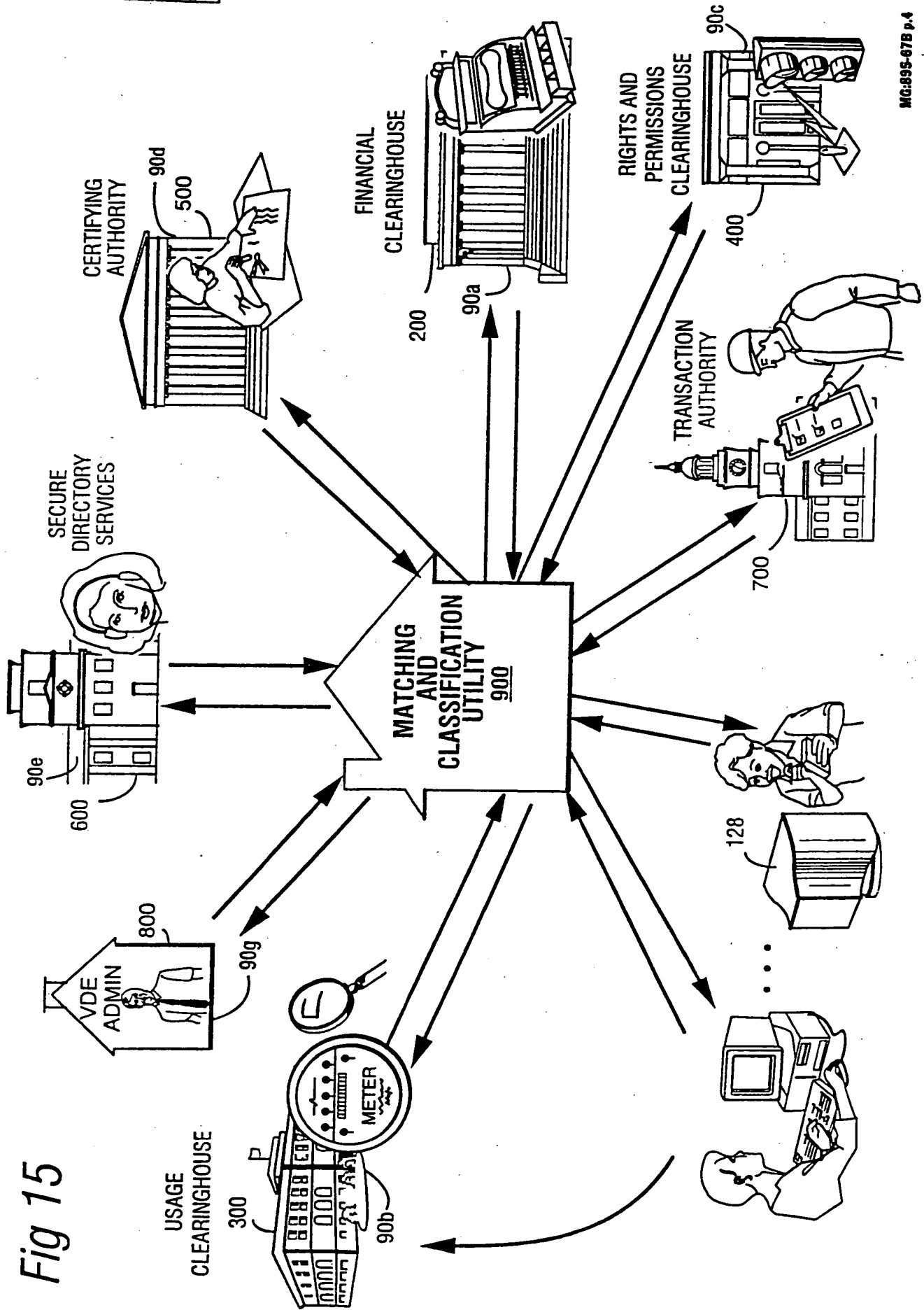
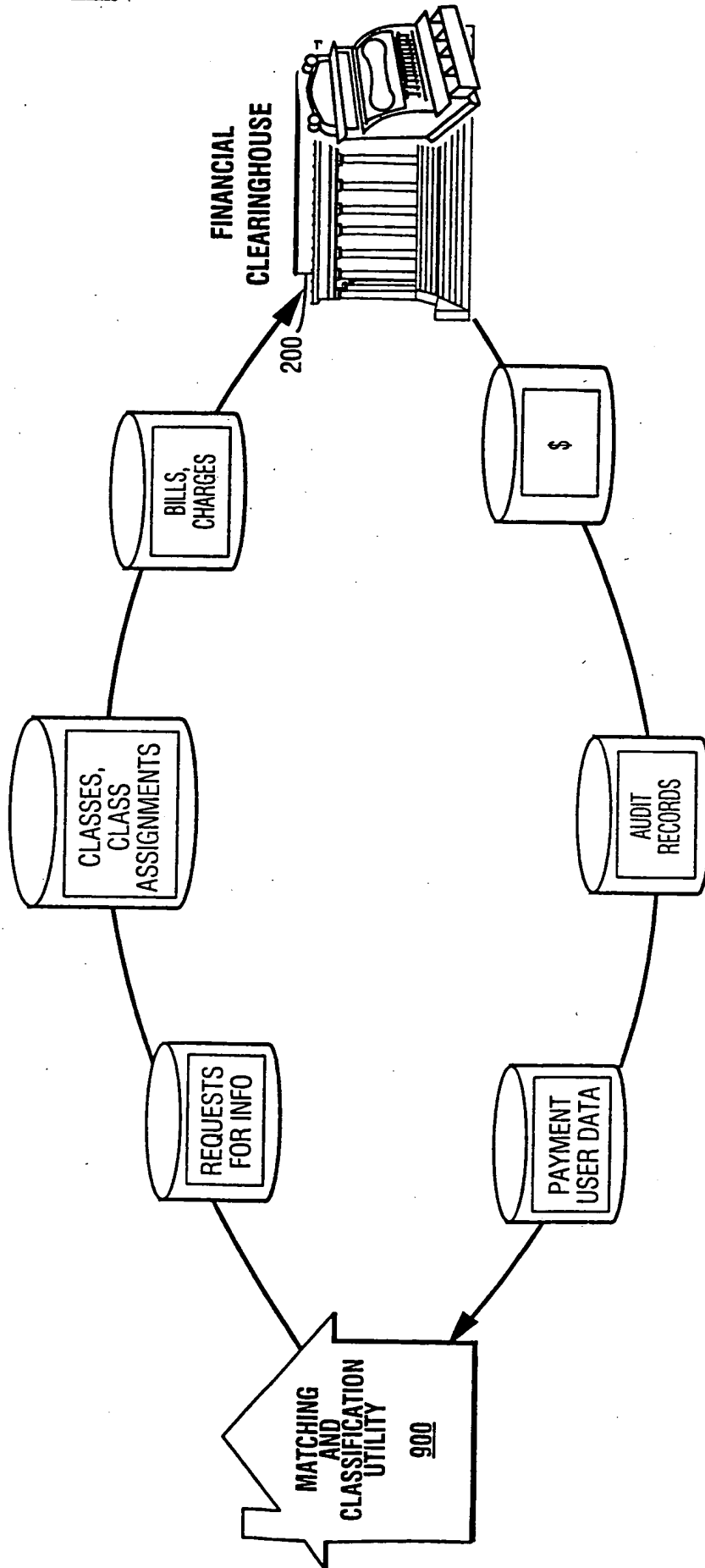


Fig. 15A



|           |           |          |
|-----------|-----------|----------|
| APPROVED  | U.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

004020\* 69286160

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | U.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

Fig. 15B

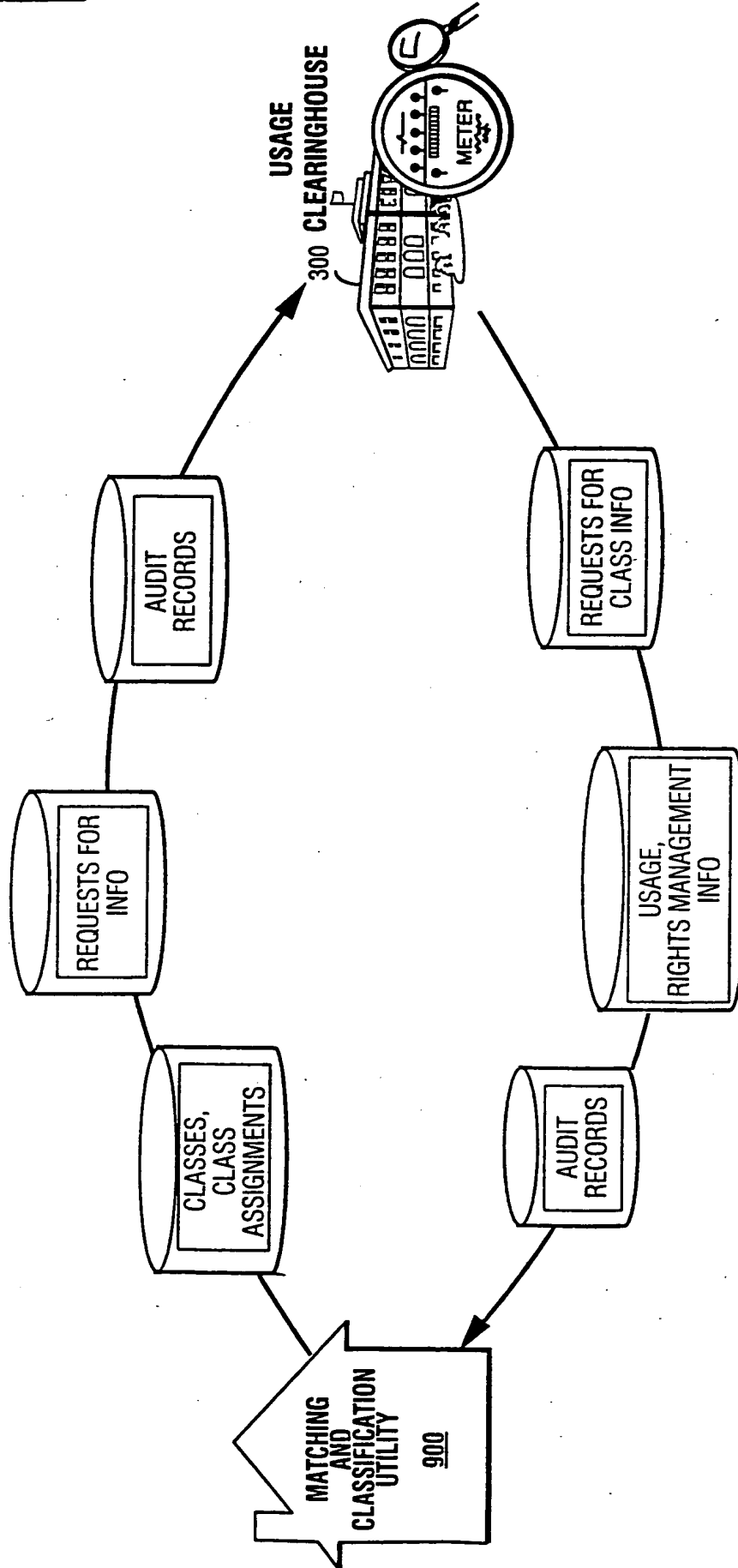
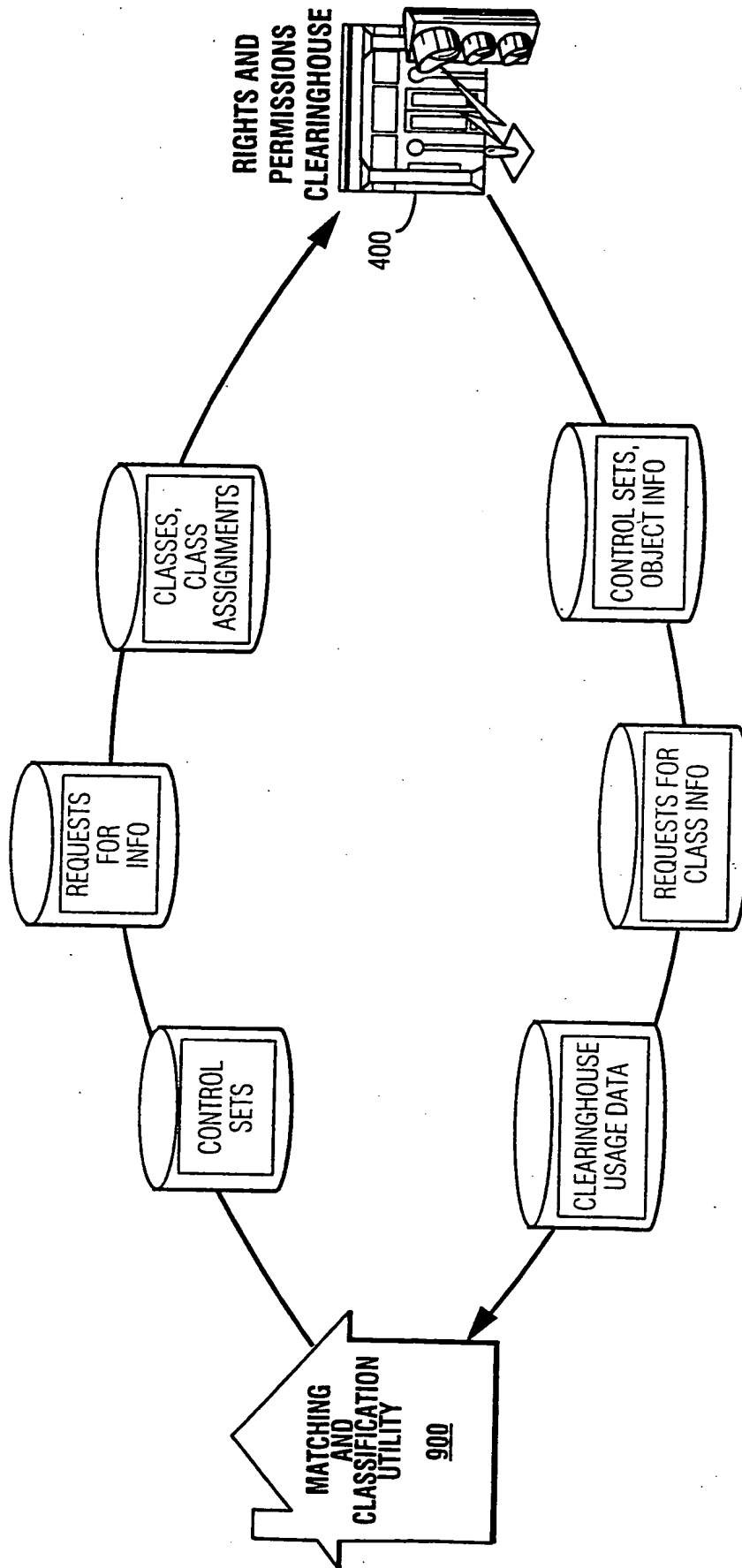


Fig. 15C



|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

000020\* 69266160

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

Fig. 15D

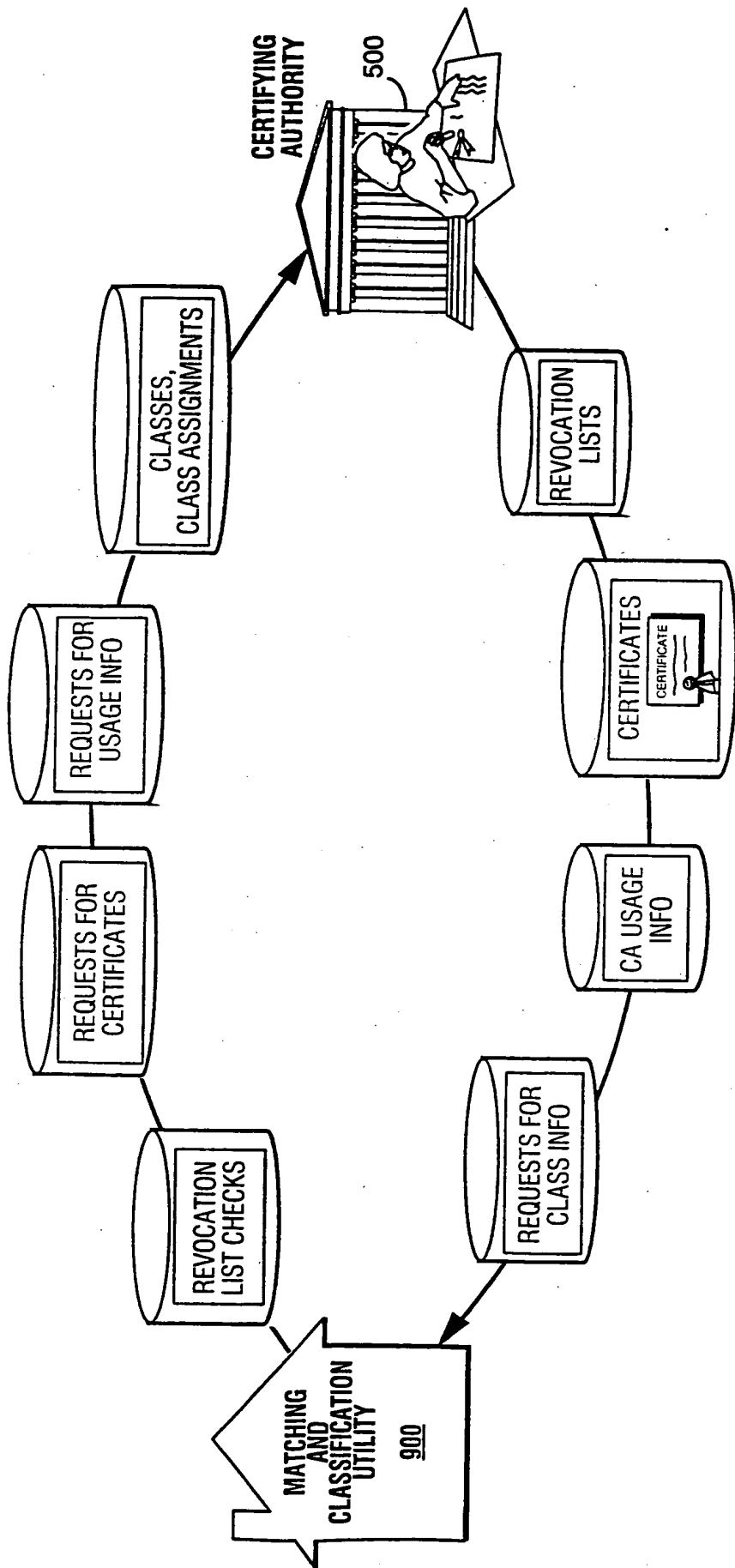
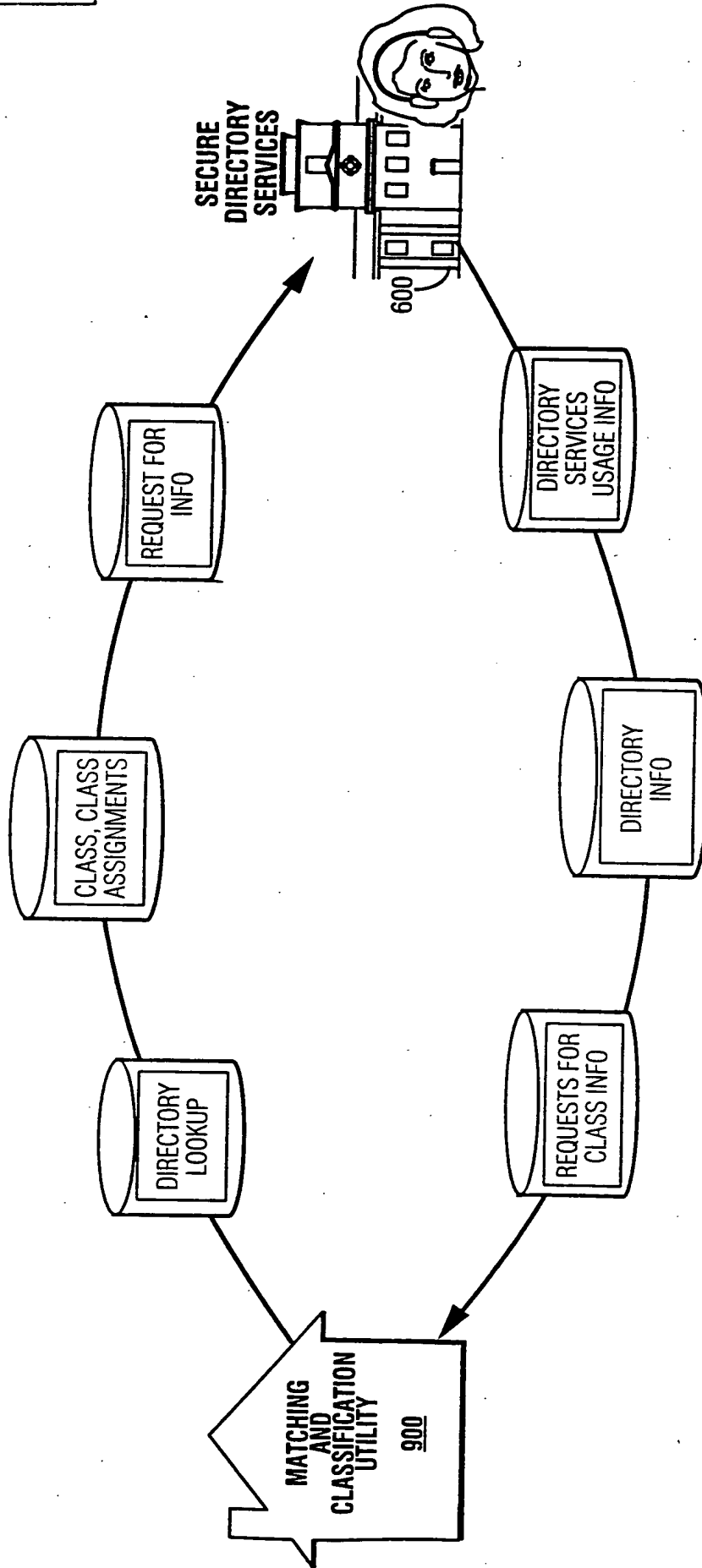


Fig. 15E





|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

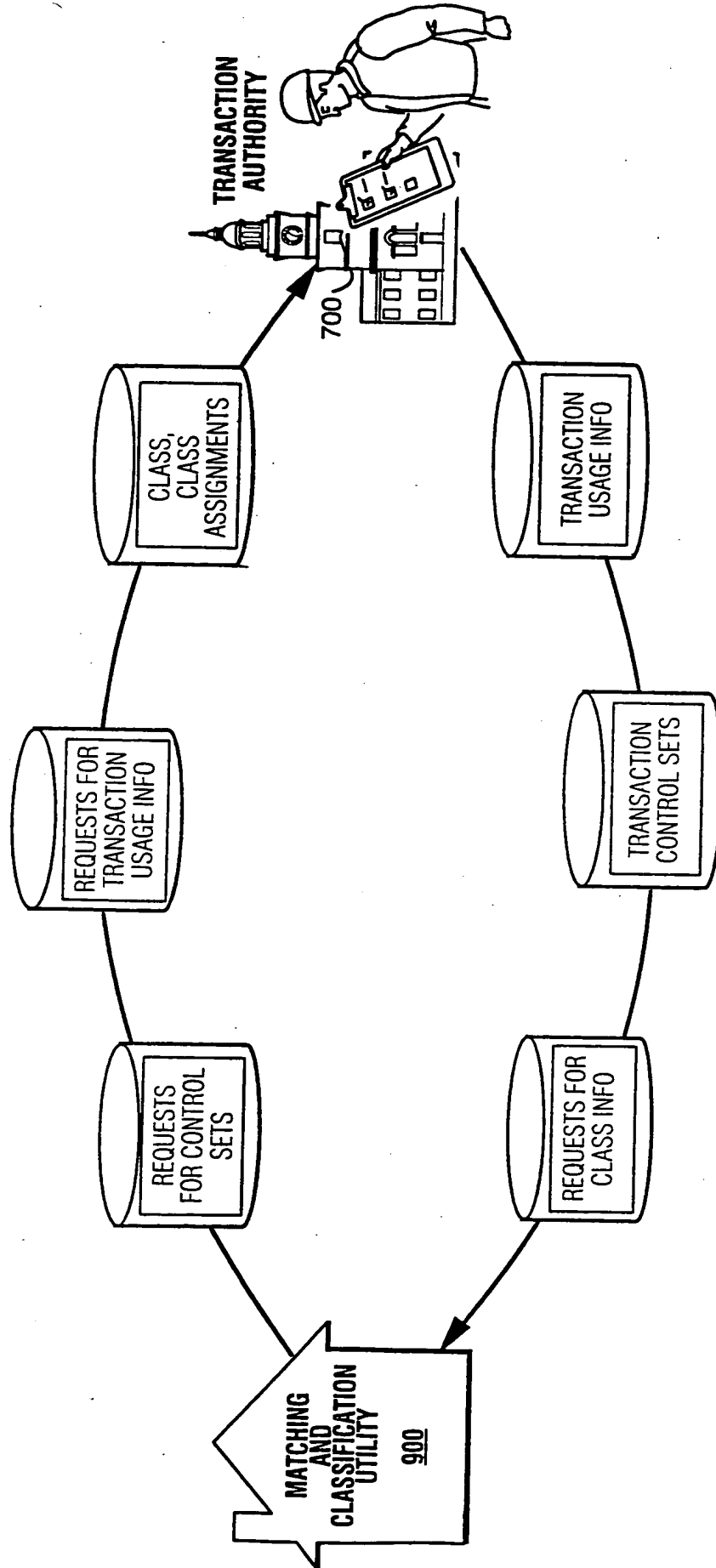
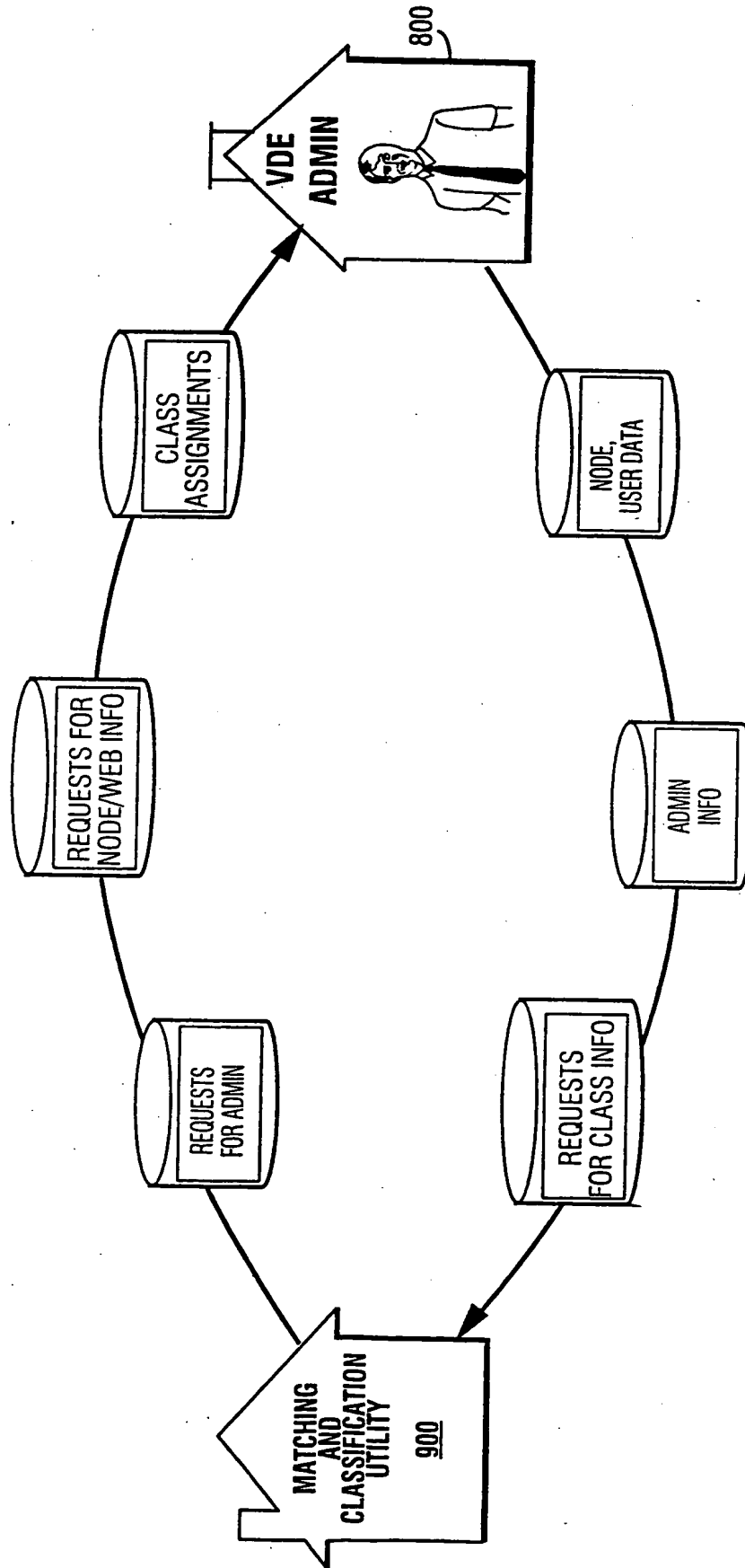


Fig. 15F

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

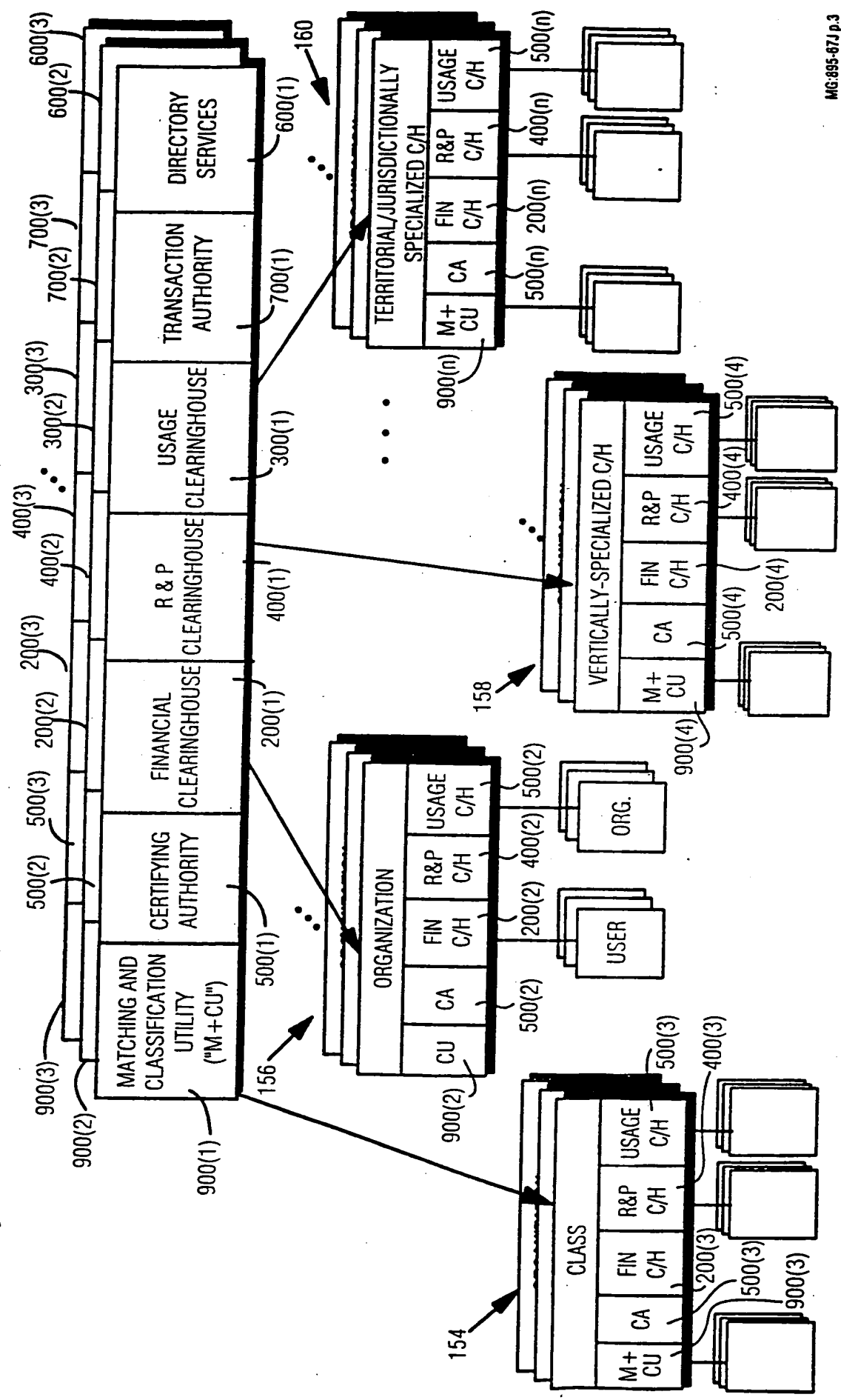
Fig. 15G



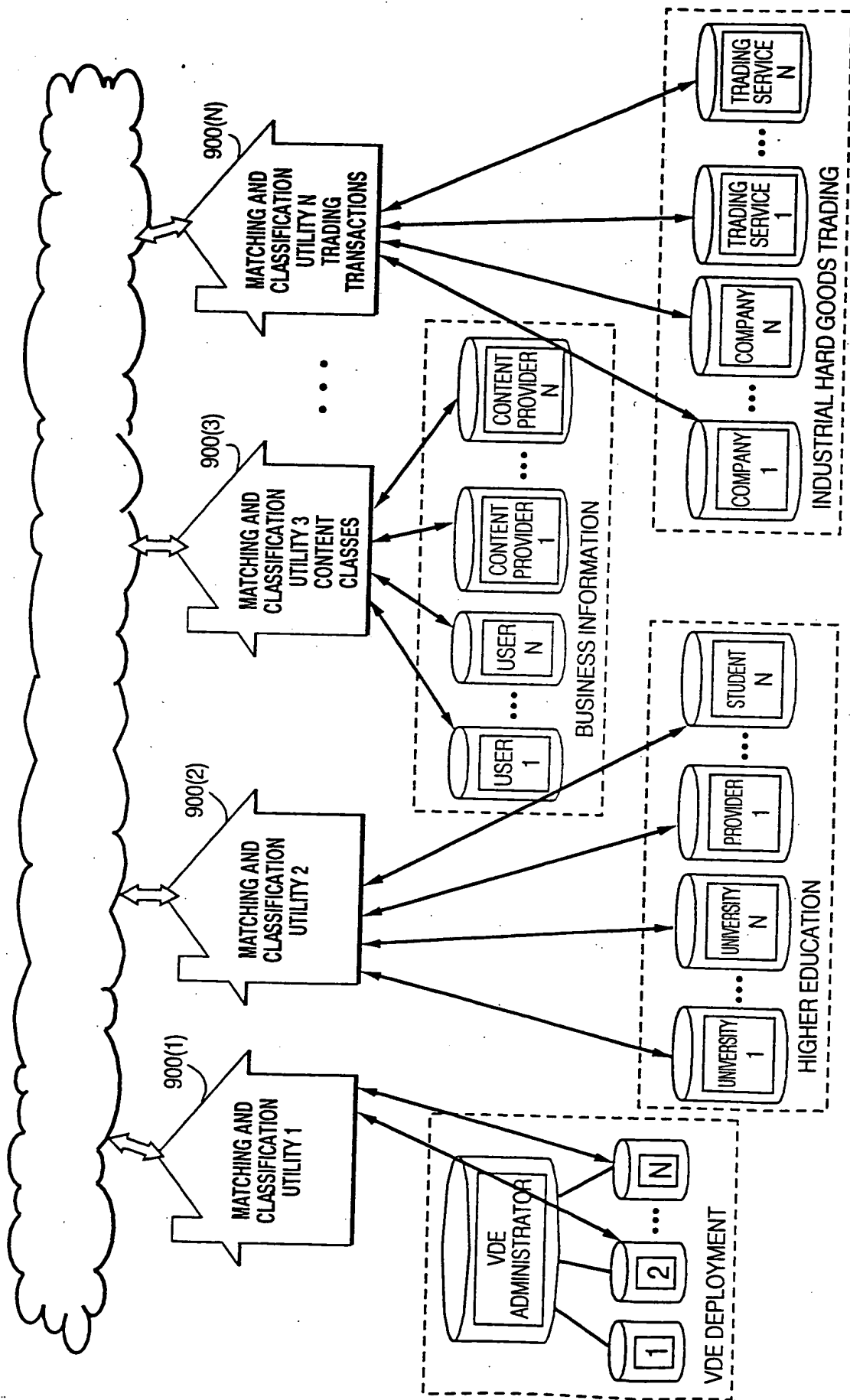
000000-000000

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

Fig. 16A  
Hierarchy of Commerce  
Utility Systems



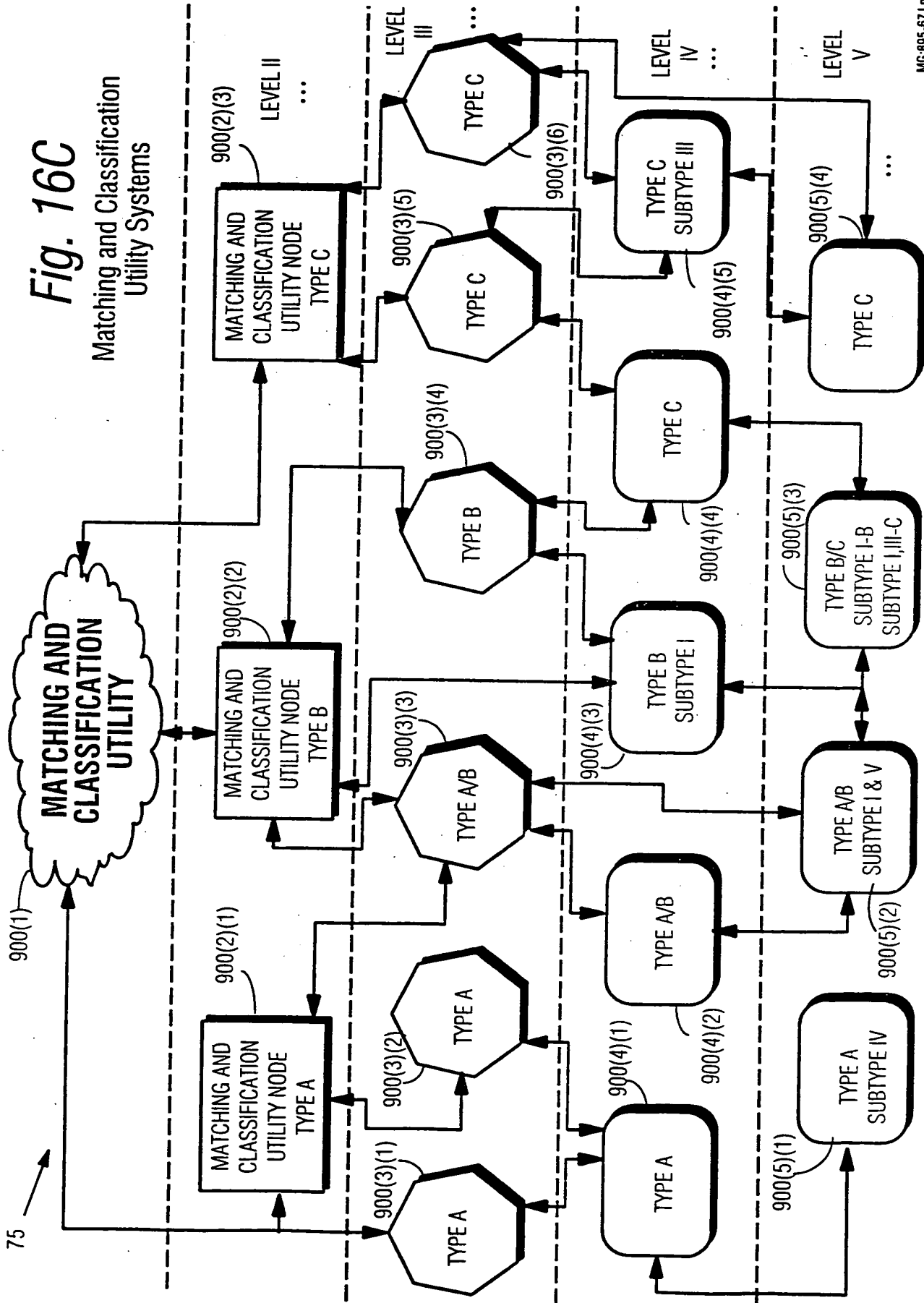
|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |



**Fig.16B** Matching & Classification Utilities Provide Services To Classes Of Nodes, Users, Content Services, Transaction Services.

**Fig. 16C**

Matching and Classification  
Utility Systems



004020\* 09200000

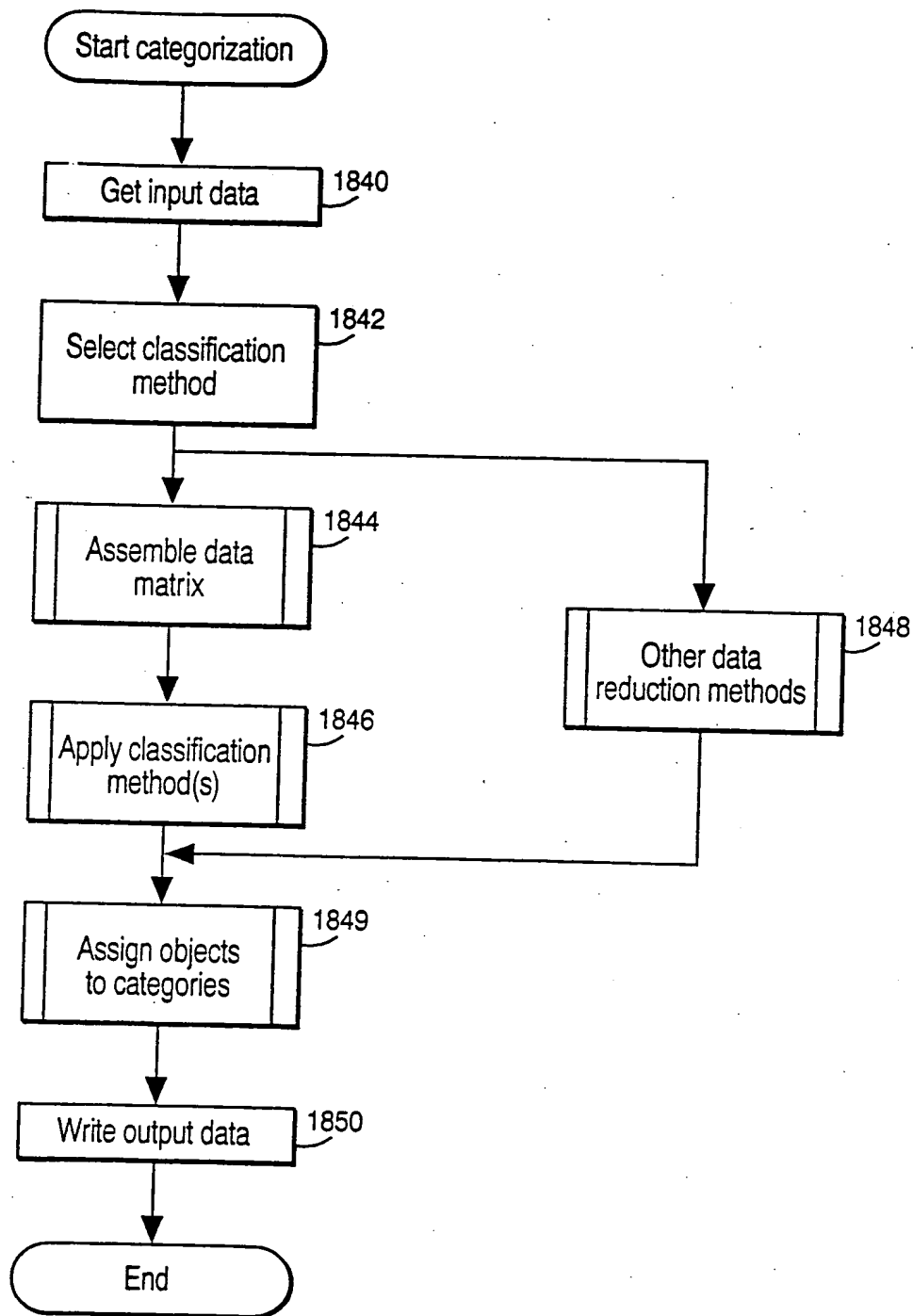
Fig. 17

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

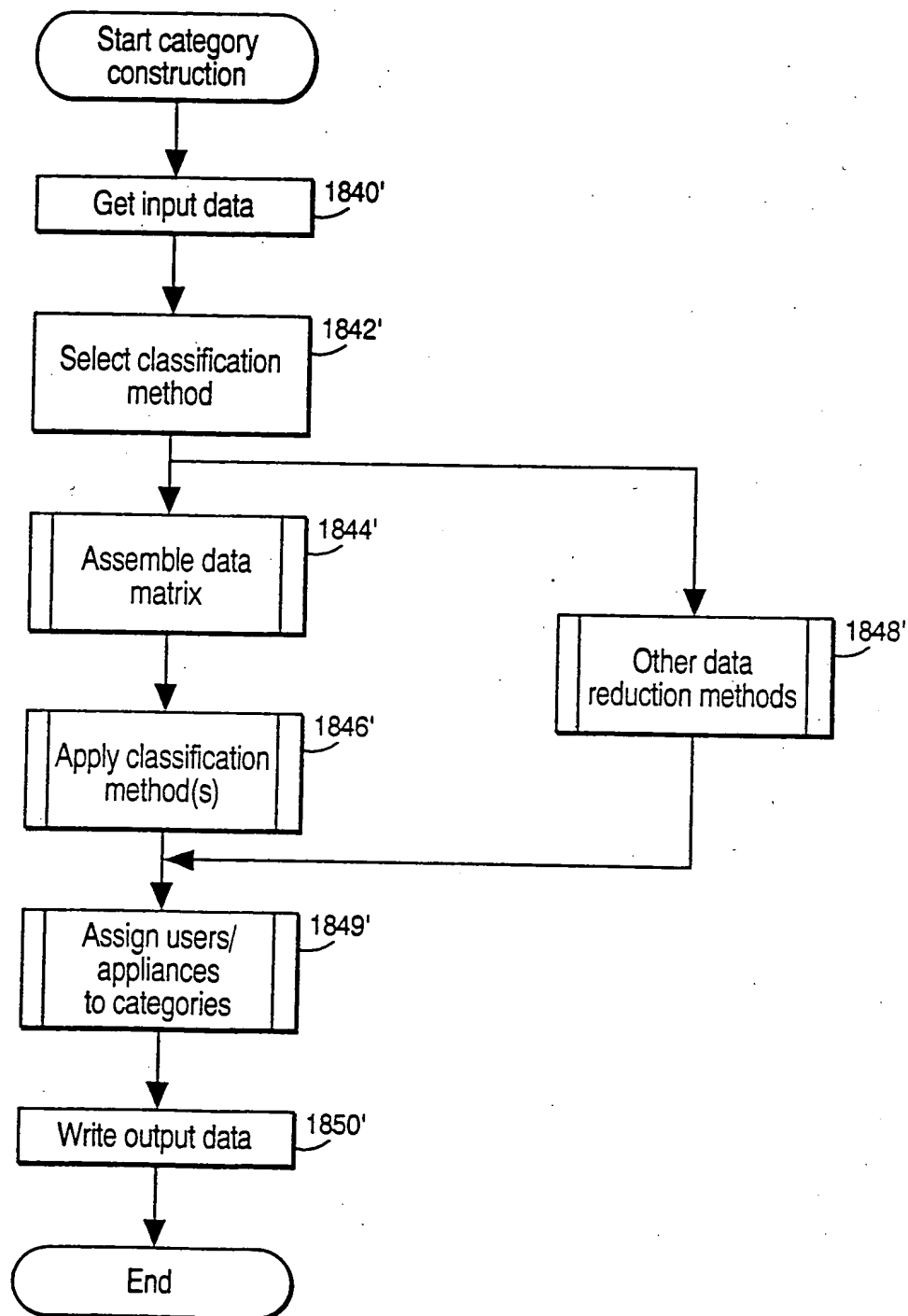
|  |                     |                                    |                       |                                       |                                    |                                      |                                   |   |                          |                                      |                         |                              |  |                                 |                        |     |
|--|---------------------|------------------------------------|-----------------------|---------------------------------------|------------------------------------|--------------------------------------|-----------------------------------|---|--------------------------|--------------------------------------|-------------------------|------------------------------|--|---------------------------------|------------------------|-----|
| FINANCIAL CLEARINGHOUSE                  | USAGE CLEARINGHOUSE | RIGHTS & PERMISSIONS CLEARINGHOUSE | CERTIFICATE AUTHORITY | SECURE DIRECTORY SERVICES             | TANGIBLES & PURCHASE & FULFILLMENT | INTANGIBLES & PURCHASE & FULFILLMENT | CONTRACT NEGOTIATIONS & EXECUTION | EDI                                     | SECURE DOCUMENT DELIVERY | BUSINESS PROCESS INTEGRATION         | ARBITRATION & MEDIATION | ELECTRONIC ORDERS            | ELECTRONIC BANKING & CURRENCY MANAGEMENT | CYBERSPACE TRADING ENVIRONMENTS | CLASSIFICATION UTILITY | ... |
| AUDIT BY CLASS                           |                     | MAINTAINING RECORDS                |                       | STATUS NOTIFICATION                   |                                    | EVENT DATABASE MANAGEMENT            |                                   | CONTROL SET DATABASE MGMT               |                          | NOTARY                               |                         | OBJECT REGISTRY              |  | CERTIFICATE CREATION            |                        | ... |
| OVERSEEING PROCESS                       |                     | CONFIRMATIONS                      |                       | ROUTING DATABASE                      |                                    | GENERATE CONTROL SETS                |                                   | SEAL GENERATOR                          |                          | OBJECT IDENTIFIER ASSIGNMENT         |                         | REVOCATION LIST MAINTENANCE  |  | ...                             |                        | ... |
| MONITORING STATUS                        |                     | UNCOMPLETED EVENTS RECORD          |                       | GENERATING REQUESTS                   |                                    | PROCESS CONTROL LOGIC                |                                   | DIGITAL TIME STAMP                      |                          | COPYRIGHT REGISTRATION               |                         | ...                          |  | ...                             |                        | ... |
| COMPLETE PROCESS DEFINITION              |                     | REQUIREMENTS GENERATION            |                       | REPLICATION                           |                                    | EVENT FLOW GENERATION                |                                   | FINGERPRINT /WATERMARK                  |                          | CONTROL SET REGISTRY                 |                         | ...                          |  | ...                             |                        | ... |
| PROCESS CONTROL                          |                     | REPORT GENERATION                  |                       | PROPAGATION                           |                                    | ROUTING                              |                                   | OFFERS & COUNTER OFFERS                 |                          | TEMPLATE REGISTRY                    |                         | DIRECTOR DATABASE MANAGEMENT |  | ...                             |                        | ... |
| INTERFACE(S) TO SETTLEMENT SERVICES      |                     | FUNDS TRANSFER                     |                       | EVENT CONSEQUENCES                    |                                    | USAGE DATABASE MANAGEMENT            |                                   | ARCHIVE                                 |                          | DATABASE QUERY & RESPONSE PROCESSING |                         | ...                          |  | ...                             |                        | ... |
| CURRENCY CONVERSION                      |                     | TAX CALCULATION & APPLICATION      |                       | ACCOUNT RECONCILIATION                |                                    | BILL CREATION & PROCESSING           |                                   | RIGHTS & PERMISSION DATABASE MANAGEMENT |                          | ADVERTISING DATABASE MANAGEMENT      |                         | ...                          |  | ...                             |                        | ... |
| ACCOUNT CREATION & IDENTIFIER ASSIGNMENT |                     | PAYMENT AGGREGATION                |                       | IDENTITY AUTHENTICATION               |                                    | MARKET RESEARCH                      |                                   | TEMPLATE DATABASE MANAGEMENT            |                          | AUTOMATIC CLASS GENERATION           |                         | AUTOMATIC MATCHING           |  | ...                             |                        | ... |
| PAYMENT DISAGGREGATION                   |                     | BUDGET PRE-AUTHORIZATION           |                       | ELECTRONIC CURRENCY CREATION          |                                    | NEGOTIATION                          |                                   | COMMERCE MGMT LANGUAGE PROCESSING       |                          | AUTOMATIC CLASS ASSIGNMENT           |                         | CLASS BASED SEARCHING        |  | ...                             |                        | ... |
| :  |                     | :                                  |                       | RIGHTS MANAGEMENT LANGUAGE PROCESSING |                                    | :                                    |                                   | :                                       |                          | :                                    |                         | CLASS BASED DIRECTORY        |  | ...                             |                        | ... |
| :  |                     | :                                  |                       | :                                     |                                    | :                                    |                                   | :                                       |                          | :                                    |                         | :                            |  | :                               |                        | ... |

908

90B



**Fig. 18**  
Example Steps to Categorize Objects



**Fig. 19**

Example Steps to Categorize Users/Appliances



| Node ID     | Operating system | Country | State | VDE Adm. Org. | VDE version | VDE maintenance level | User ID number | Gender | Age | Highest edu. level | Citizenship | Country of residence | City   |
|-------------|------------------|---------|-------|---------------|-------------|-----------------------|----------------|--------|-----|--------------------|-------------|----------------------|--------|
| 128.1.4.132 | WIN95            | USA     | CA    | VDEADM        | 1.5         | 02                    | FF98C48A       | Female | 32  | 14                 | UK          | UK                   | London |
| .....       |                  |         |       |               |             |                       |                |        |     |                    |             |                      |        |

1852

## Myers-Briggs Categories

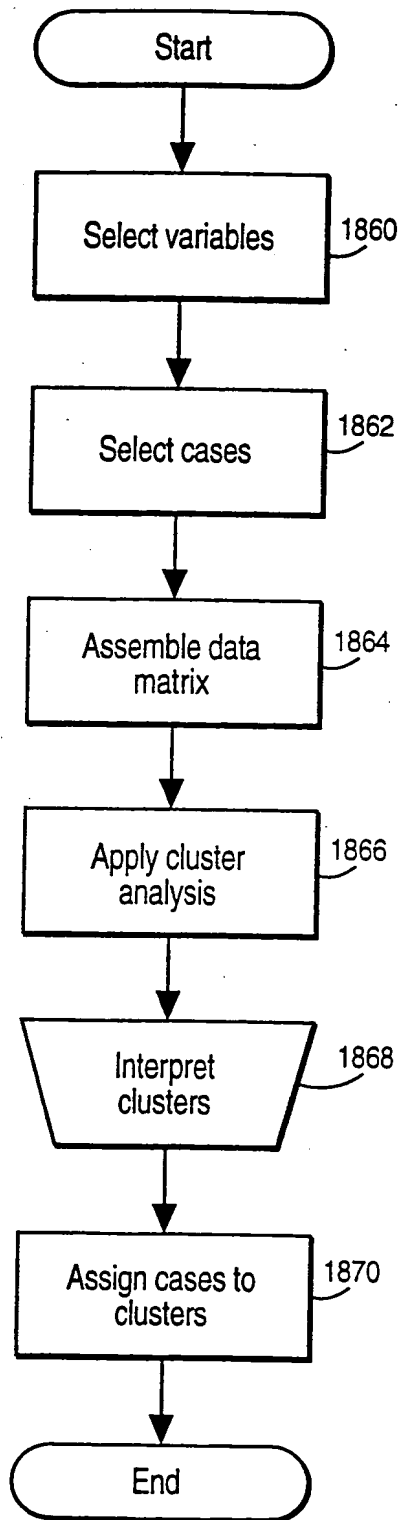
| User ID  | Extroversion<br>or<br>introversion | Sensing<br>or<br>intuition | Thinking<br>or<br>feeling | Judging<br>or<br>perceiving | SRI<br>internet<br>iVALS<br>category |
|----------|------------------------------------|----------------------------|---------------------------|-----------------------------|--------------------------------------|
| FF98C48A | I                                  | N                          | T                         | J                           | Worker                               |
| .....    |                                    |                            |                           |                             | .....                                |

**Fig. 20**

## Example Composite Record-Input To Classification Process

| User ID number | Object ID      | Right ID | Method | Right ID | Method    | Right ID | Method          | Right ID | Method | ..... |
|----------------|----------------|----------|--------|----------|-----------|----------|-----------------|----------|--------|-------|
| CF129CD5       | 1227-33-1298-2 | Use      | Open   | Meter    | Each time | Budget   | Simple purchase | \$1.00   | Bill   | VISA  |

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |



**Fig. 21**  
Example Cluster Analysis Process

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

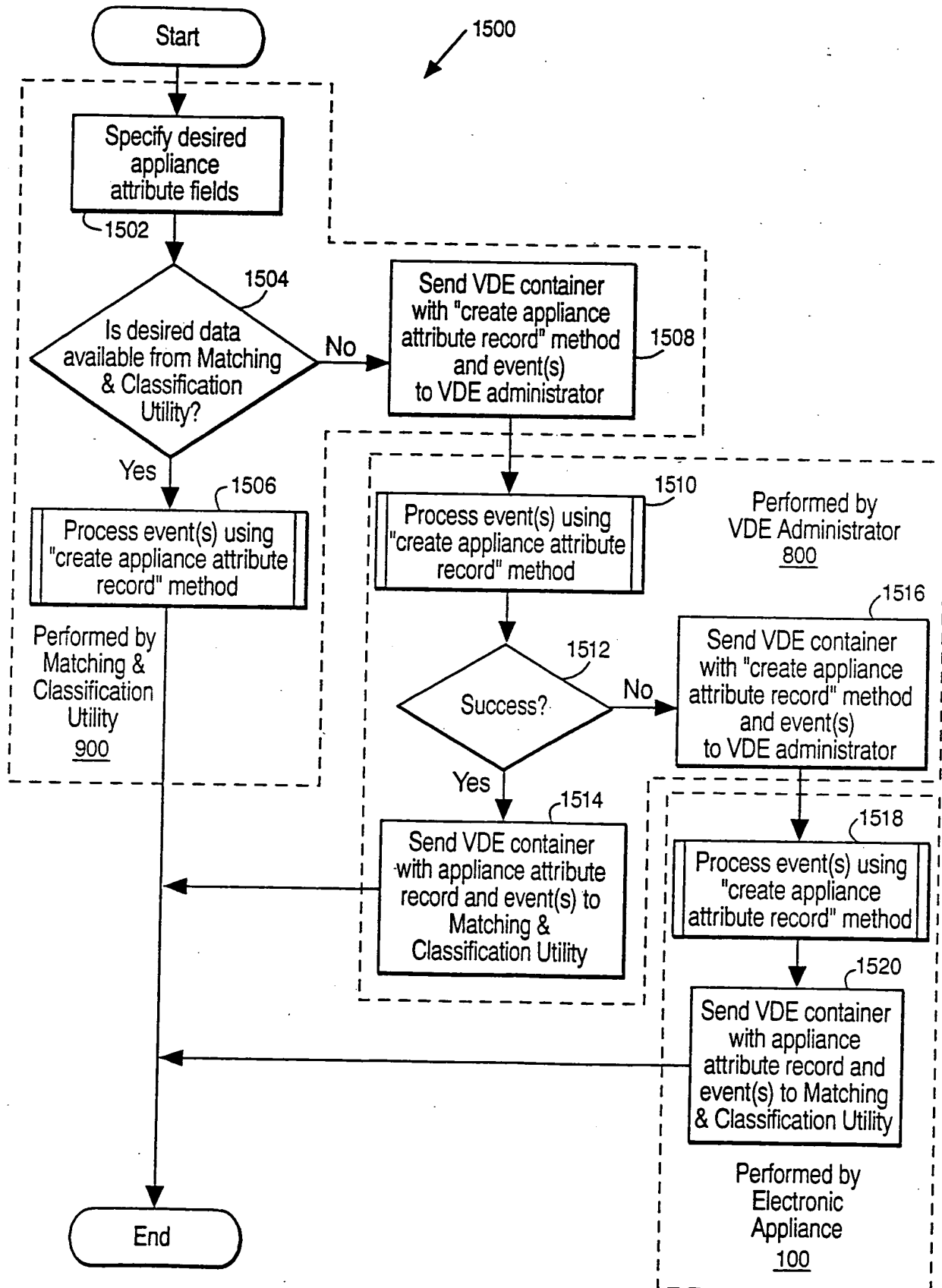
| Variables                                   | Typical Class 1-Profile         | Typical Class 2-Profile |
|---|---------------------------------|-------------------------|
| City  | Washington, DC                  | Knoxville, TN           |
| Av. price of content purchased last 30 days | \$8.79                          | \$1.95                  |
| Number of trips abroad in last 2 years      | 3                               | 0                       |
| Type of content most frequently purchased   | National and international news | Sports                  |
| 2nd most frequently purchased               | Business information            | Religious               |
| Third most frequently purchased             | Travel information              | Movies                  |
| Pay per view                                | No                              | Yes                     |
| Add new controls to content                 | Yes                             | No                      |
| Stated religious affiliation                | None                            | Methodist               |
| SRI internet lifestyle category             | Surfer                          | Worker                  |
| Modification rights purchased               | 20% of text items               | 5% of text items        |

**Fig. 22** Example Classification Output Illustrating Different Classes Based Upon Differing Profiles

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

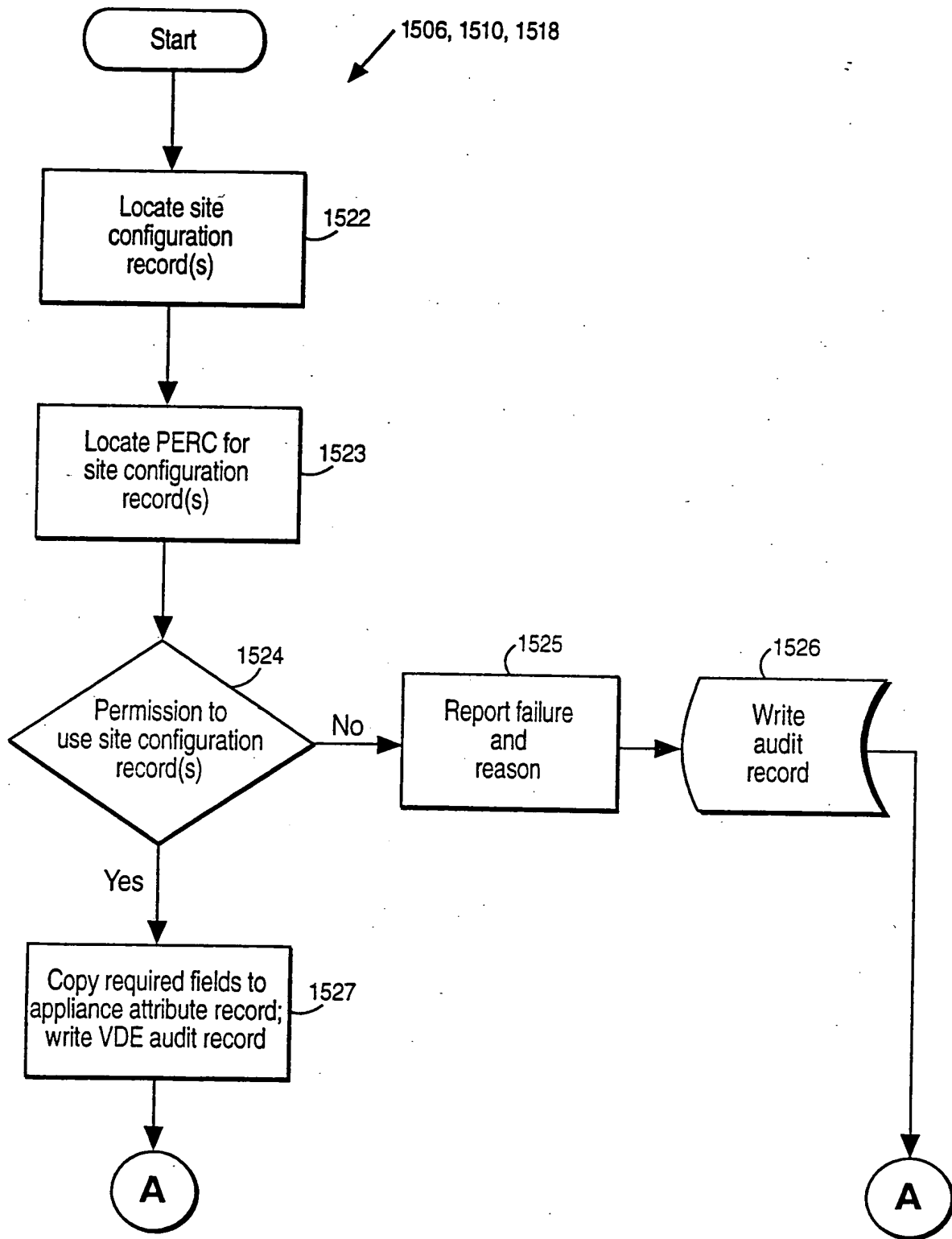
| Variables                                   | Factor 1 Loadings | Factor 2 Loadings |
|---|-------------------|-------------------|
| Region of US                                | .82               | .11               |
| Family income                               | .90               | -.09              |
| Av. price of content purchased last 30 days | .72               | .15               |
| Number of trips abroad in last 2 years      | .91               | .09               |
| Percent news, business                      | .79               | -.12              |
| Percent entertainment                       | -.69              | .21               |
| Add new controls to content                 | .88               | .19               |
| Religiosity                                 | -.60              | -.22              |
| Participates in sports                      | -.21              | .87               |
| Watches team/individual sports on TV        | -.11              | .62               |
| Owens a sports utility vehicle              | .12               | .72               |
| Consumes beer/wine                          | -.18              | .83               |
| Male/female                                 | .21               | .92               |
| Education beyond college                    | .45               | -.45              |
| Buys pay per view sports events             | -.25              | .77               |
| Number of TVs in house                      | -.11              | .66               |

**Fig. 23** Example Classification Output Illustrating Principal Components Analysis On Parameter Data And Categories Data



**Fig. 24**

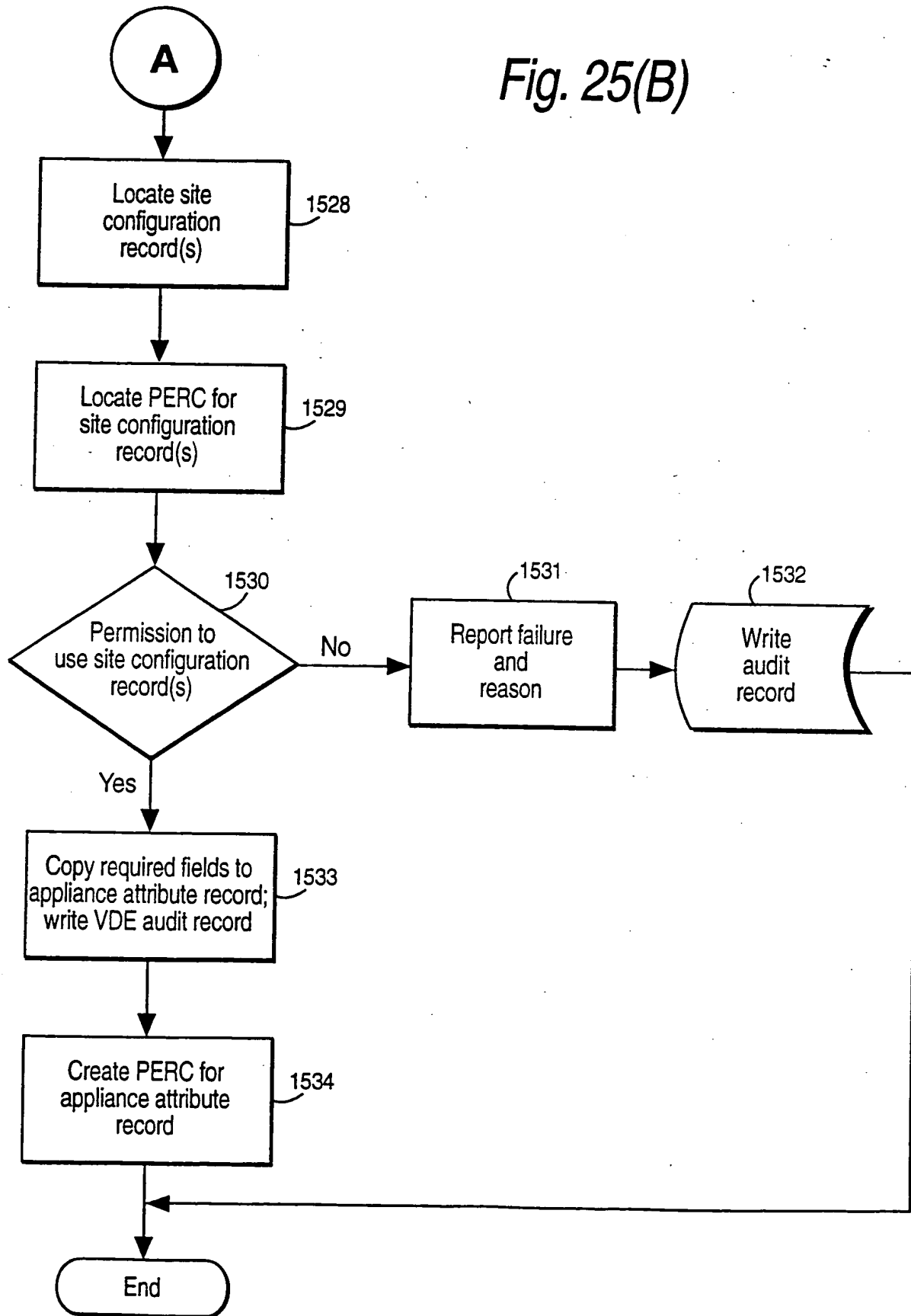
Example Steps for Collecting Appliance Attribute Data



**Fig. 25(A)**

Example Create Appliance Attribute Data Method steps

Fig. 25(B)



**Fig. 26(A)** Example Appliance Attribute Record

|              |       |       |       |       |       |       |       |       |       |      |        |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------|
| Appliance ID | Attr1 | Attr2 | Attr3 | Attr4 | Attr5 | Attr6 | Attr7 | Attr8 | Attr9 | .... | Attr N |
| 1535-1       |       |       |       |       |       |       |       |       |       |      |        |
| 1538(N)      |       |       |       |       |       |       |       |       |       |      |        |

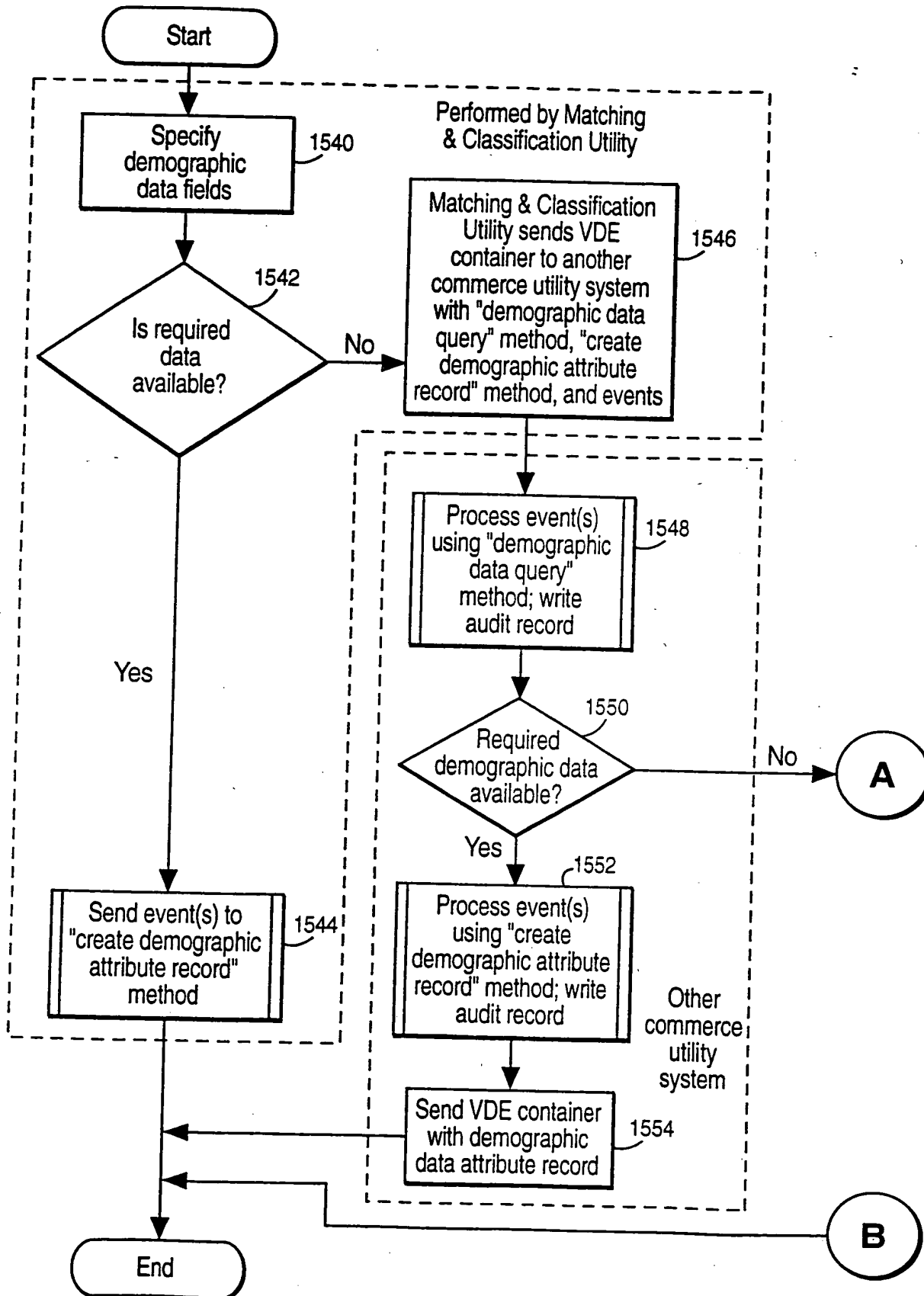
**Fig. 26(B)**

| Appliance        |         |       |    | VDE       |     | VDE     |      | VDE               |  |
|------------------|---------|-------|----|-----------|-----|---------|------|-------------------|--|
| Operating system |         |       |    | Adm. Org. |     | version |      | maintenance level |  |
| Appliance ID     | Country | State |    |           |     |         |      |                   |  |
| 128.1.4.132      | WIN95   | USA   | CA | VDEADM    | 1.5 | 02      | .... |                   |  |
| 1536(1)          |         |       |    | 1538(B)   |     | 1538(D) |      | 1538(E)           |  |
| 1538(A)          |         |       |    | 1538(C)   |     | 1538(F) |      |                   |  |

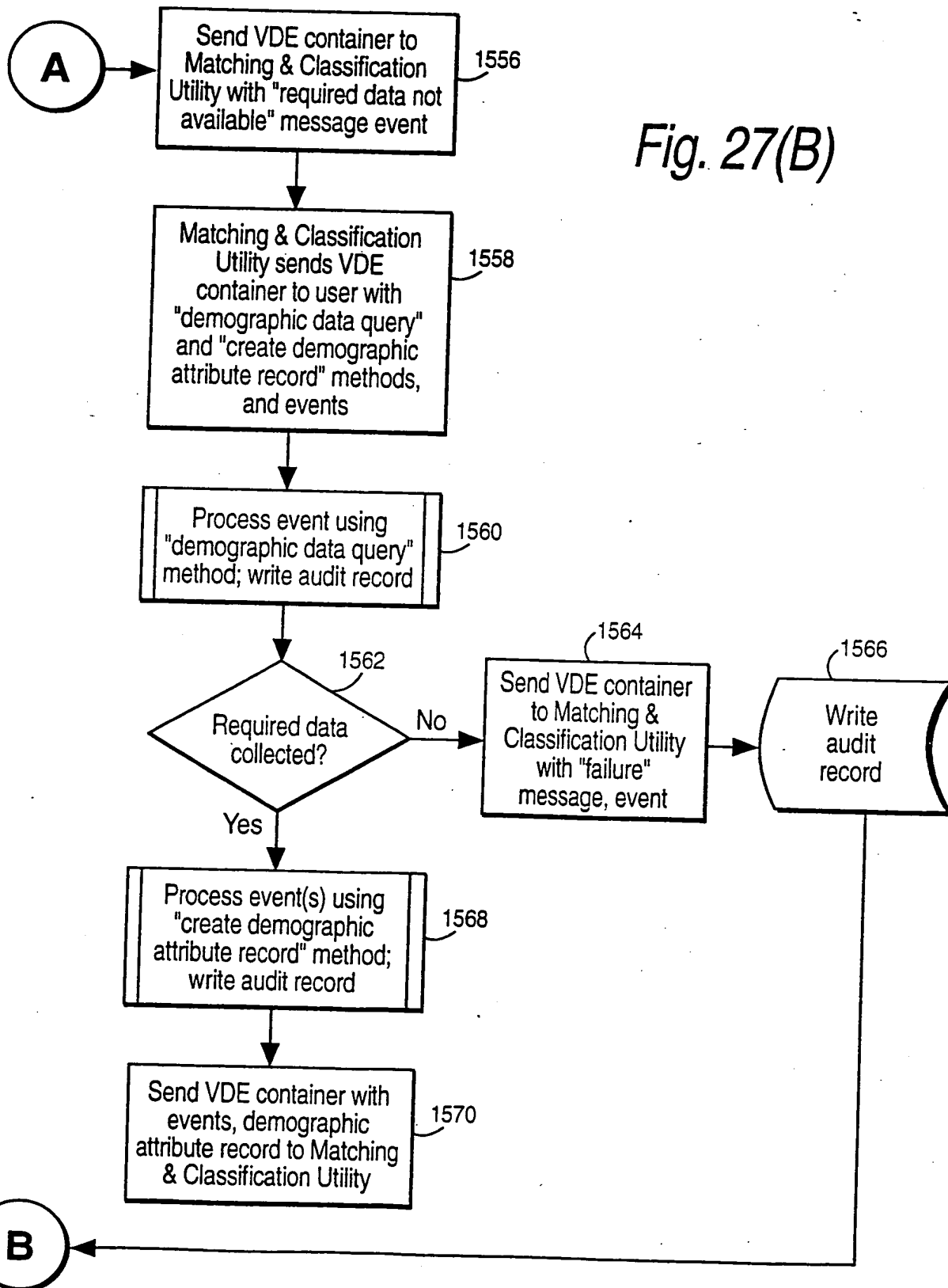
| Appliance        |         |       |   | VDE       |     | VDE     |      | VDE               |  |
|------------------|---------|-------|---|-----------|-----|---------|------|-------------------|--|
| Operating system |         |       |   | Adm. Org. |     | version |      | maintenance level |  |
| Appliance ID     | Country | State |   |           |     |         |      |                   |  |
| 128.1.4.132      | 1       | 1     | 8 | 23        | 1.5 | 2       | .... |                   |  |
| 1536(1)          |         |       |   | 1538(B)   |     | 1538(D) |      | 1538(E)           |  |
| 1538(A)          |         |       |   | 1538(C)   |     | 1538(F) |      |                   |  |

**Fig. 26(C)**  
Example Appliance Attribute Record





**Fig. 27(A)** Example Steps for Collecting Demographic Data



|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

### Demographic Information Questionnaire

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ - \_\_\_\_\_

Gender (M/F) \_\_\_\_\_ Date of birth: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

Education:

- ☐ Have not graduated high school
- ☐ High school graduate
- ☐ Some college
- ☐ College degree
- ☐ Some graduate school
- ☐ Advanced degree

All Information Will Be Treated As Confidential

**Fig. 28** Example Demographic Questionnaire "Pop-Up" Screen

Fig. 29(A) Example User Demographic Attribute Information Record

| User ID | Attr1 | Attr2 | Attr3 | Attr4 | Attr5 | Attr6 | Attr7 | Attr8 | Attr9 | .... | Attr N |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------|
| 1574    |       |       |       |       |       |       |       |       |       |      |        |

1572

1576(N)

Fig. 29(B) Example Demographic Attribute Record

| User ID number | Gender | Age | Highest edu. level | Citizenship | Country of residence | District | City        | Street address     |
|----------------|--------|-----|--------------------|-------------|----------------------|----------|-------------|--------------------|
| FF98C48A       | Female | 32  | 14                 | UK          | UK                   | London   | Westminster | 32 Shepherd Market |

1572-1

1574

1576(A)

1576(B)

1576(C)

1576(D)

1576(E)

1576(F)

1576(G)

1576(H)

....

Fig. 29(C) Example Demographic Attribute Record

| User ID number | Gender | Age | Highest edu. level | Citizenship | Country of residence | District | City | Street address |
|----------------|--------|-----|--------------------|-------------|----------------------|----------|------|----------------|
| FF98C48A       | 1      | 32  | 14                 | 44          | 1                    | 1        | 22   | 32 3243        |

1572-2

1574

1576(A)

1576(B)

1576(C)

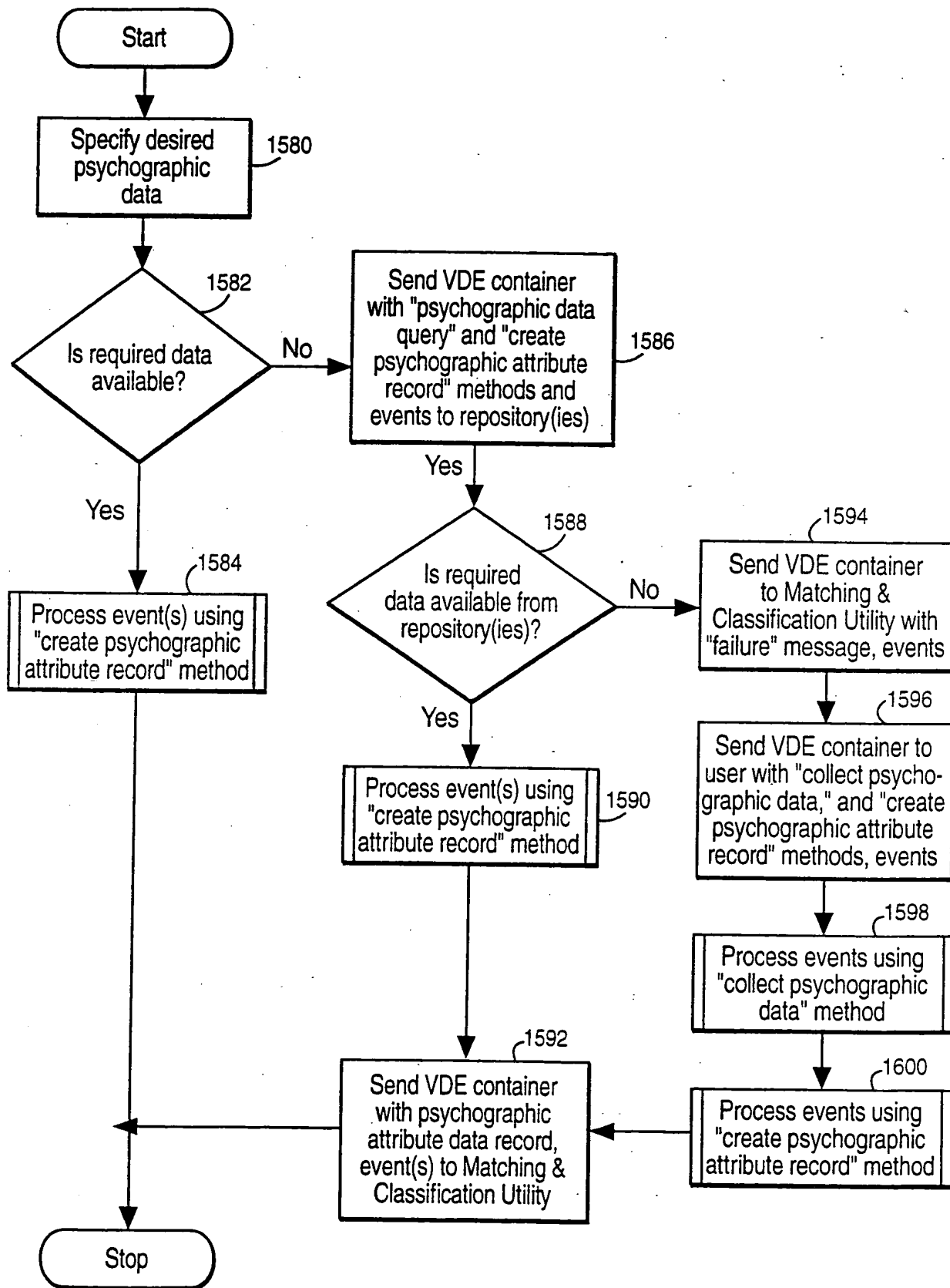
1576(D)

1576(E)

1576(F)

1576(G)

1576(H)



**Fig. 30** Example Steps for Collecting Psychographic Data

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

**Today's Anonymous Questionnaire**  
**Thanks for taking the time to answer these questions**  
**We'll put \$2.00 in your VDE budget**

1. Do you feel sad, blue, unhappy or "down in the dumps"?

- ☐ A. Never
- ☐ B. Rarely
- ☐ C. Sometimes
- ☐ D. Very Often
- ☐ E. Most of the time

2. Do you feel tired, having little energy, unable to concentrate?

- ☐ A. Never
- ☐ B. Rarely
- ☐ C. Sometimes
- ☐ D. Very Often
- ☐ E. Most of the time

3. Do you feel uneasy, restless or irritable?

- ☐ A. Never
- ☐ B. Rarely
- ☐ C. Sometimes
- ☐ D. Very Often
- ☐ E. Most of the time

4. Do you have trouble sleeping or eating (too little or too much)?

- ☐ A. Never
- ☐ B. Rarely
- ☐ C. Sometimes
- ☐ D. Very Often
- ☐ E. Most of the time

☐ Click here for more questions

All Information Will Be Treated As Confidential

**Fig. 31** Example Psychographic Questionnaire "Pop-Up" Screen

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

Fig. 32(A) Example User Psychographic Attribute Information Record

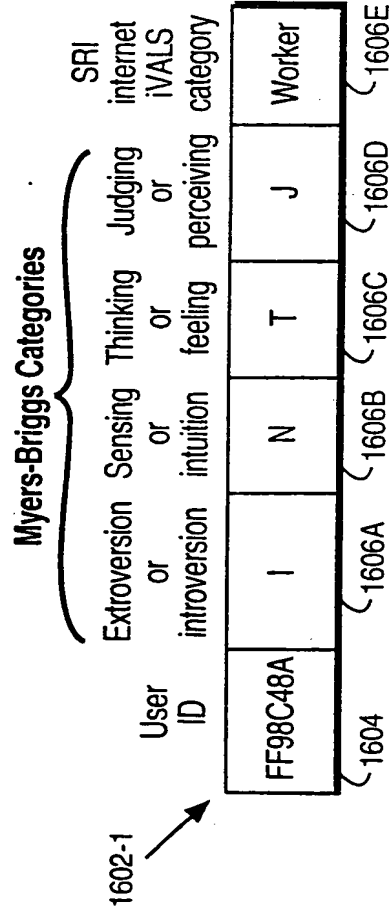
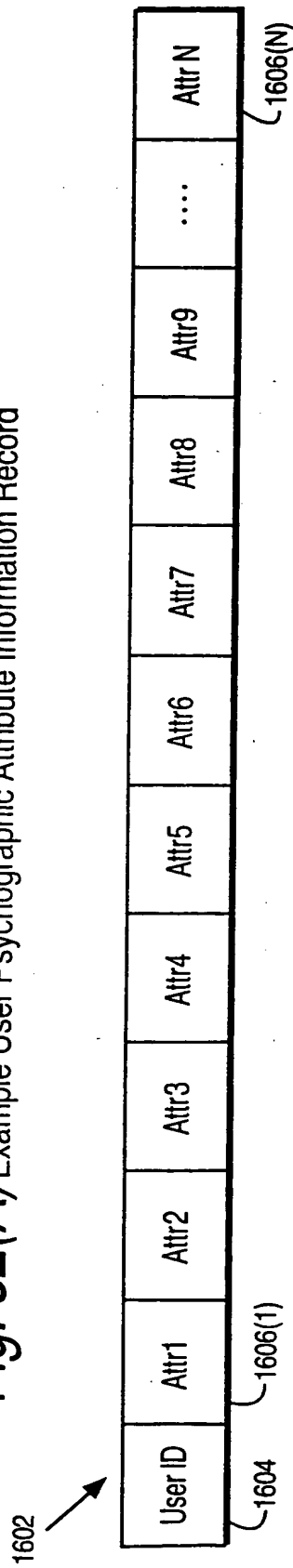


Fig. 32(B)  
Example User Psychographic Attribute Record

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

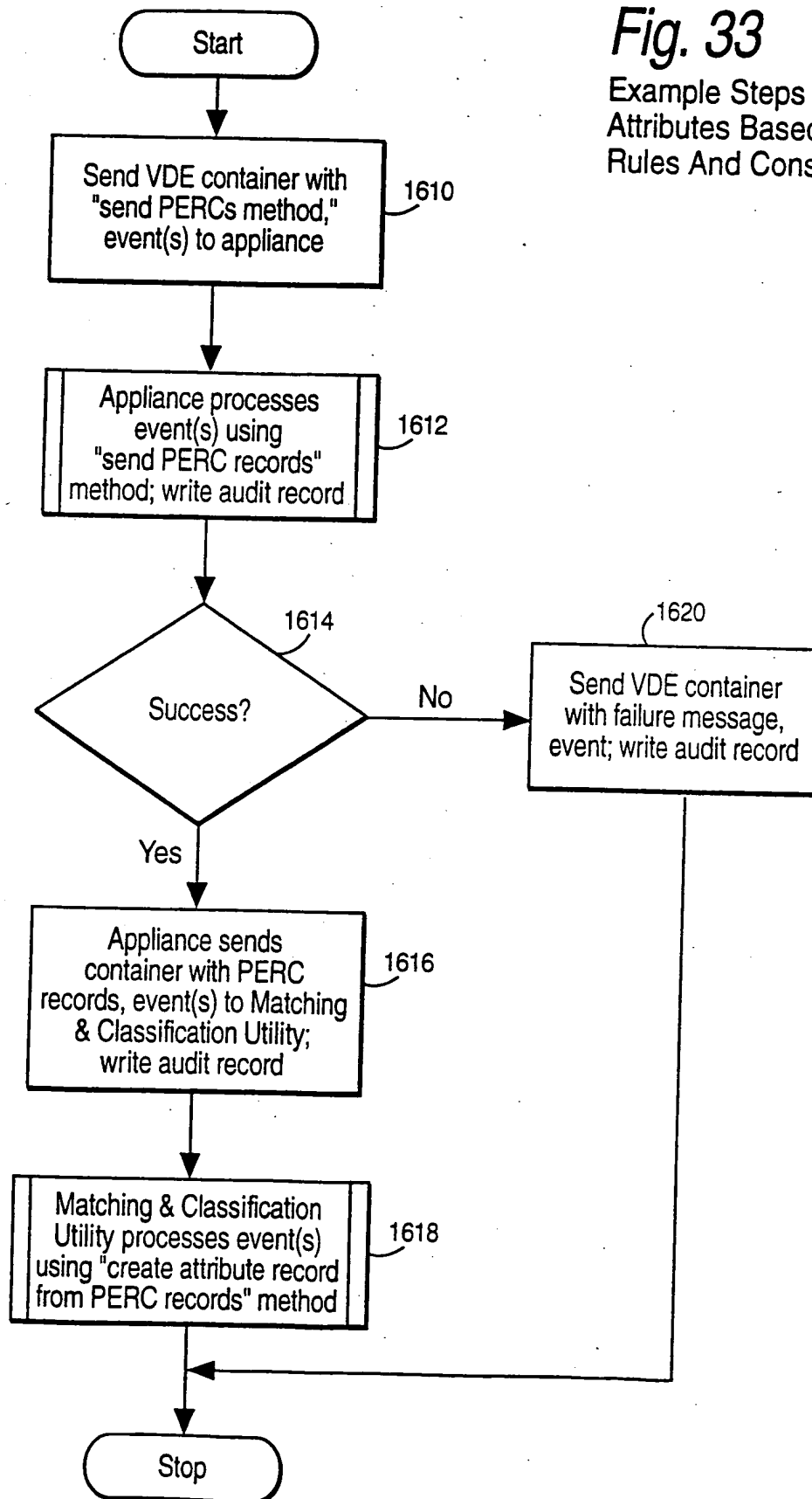
**Fig. 32(C)** Example Psychographic Attribute Record

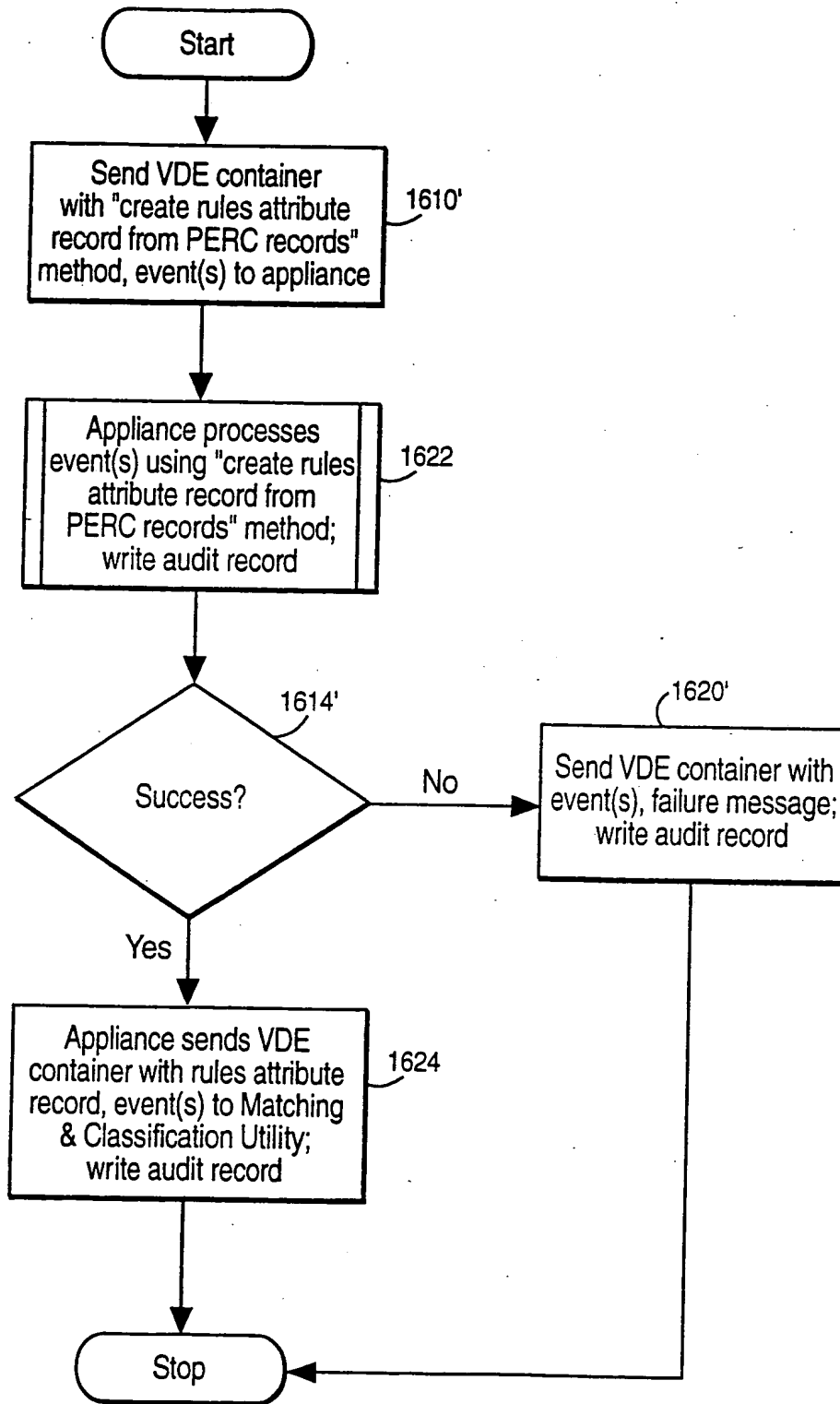
|          |                              |       |                      |       |                     |       |                       |       |        |         |                              |        |        |           |           |             |               |  |  |  |  |  |  |  |
|----------|------------------------------|-------|----------------------|-------|---------------------|-------|-----------------------|-------|--------|---------|------------------------------|--------|--------|-----------|-----------|-------------|---------------|--|--|--|--|--|--|--|
| 1602-2   | Myers-Briggs Categories      |       |                      |       |                     |       |                       |       |        |         | SRI Internet VALS Categories |        |        |           |           |             |               |  |  |  |  |  |  |  |
| User ID  | Extroversion or introversion |       | Sensing or intuition |       | Thinking or feeling |       | Judging or perceiving |       | Wizard | Pioneer | Worker                       | Seeker | Surfer | Immigrant | Socialite | Up-streamer | Main-streamer |  |  |  |  |  |  |  |
|          | 1606A                        | 1606B | 1606C                | 1606D | 1606E               | 1606F | 1606G                 | 1606H | 1606I  | 1606J   | 1606K                        | 1606L  | 1606M  | 1606N     | 1606O     | 1606P       | 1606Q         |  |  |  |  |  |  |  |
| FF98C48A | 1                            | 0     | 1                    | 1     | 0                   | 0     | 1                     | 0     | 0      | 0       | 1                            | 0      | 0      | 0         | 0         | 0           | 0             |  |  |  |  |  |  |  |



**Fig. 33**

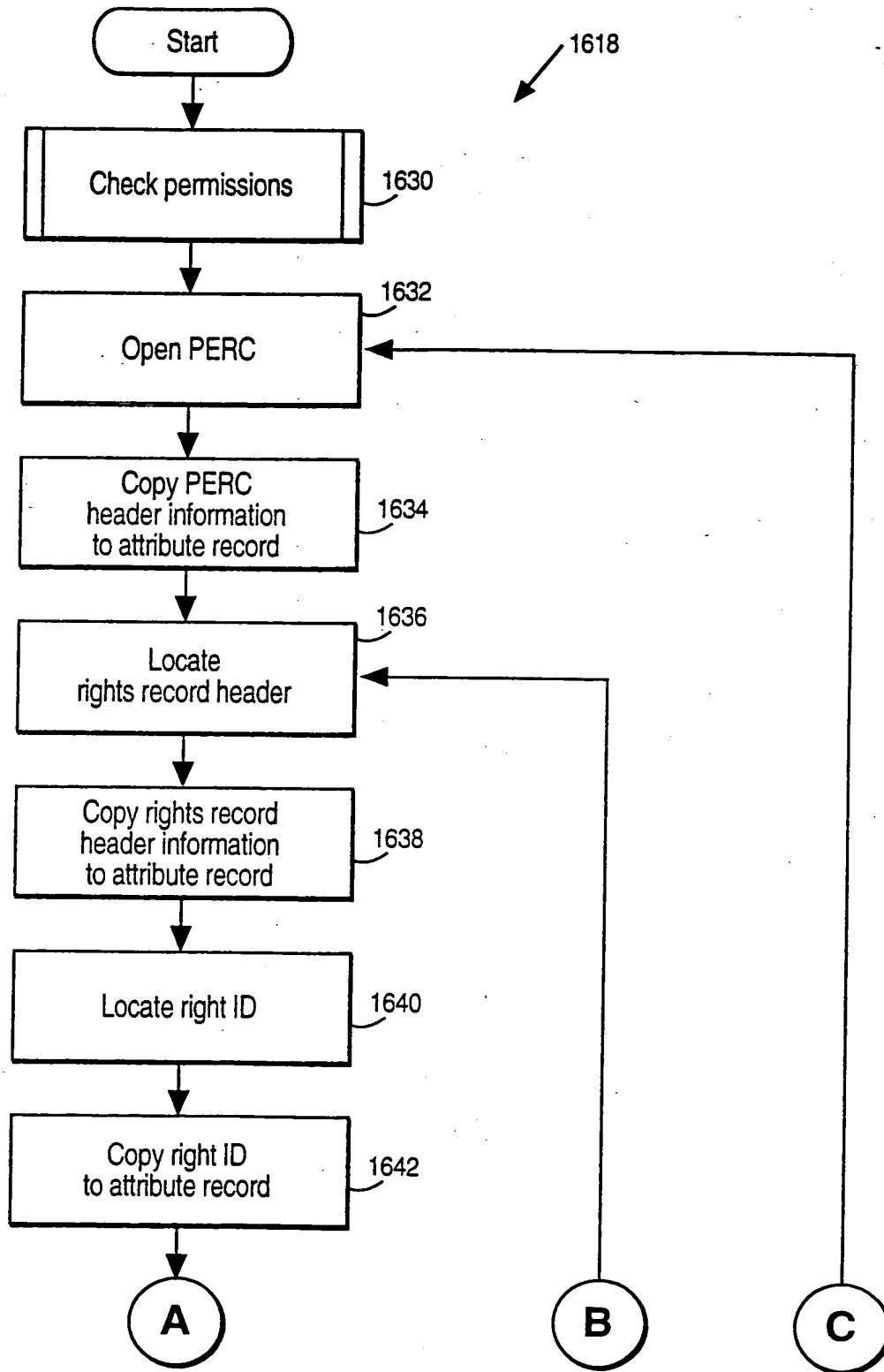
Example Steps For Determining  
Attributes Based On Available  
Rules And Consequences





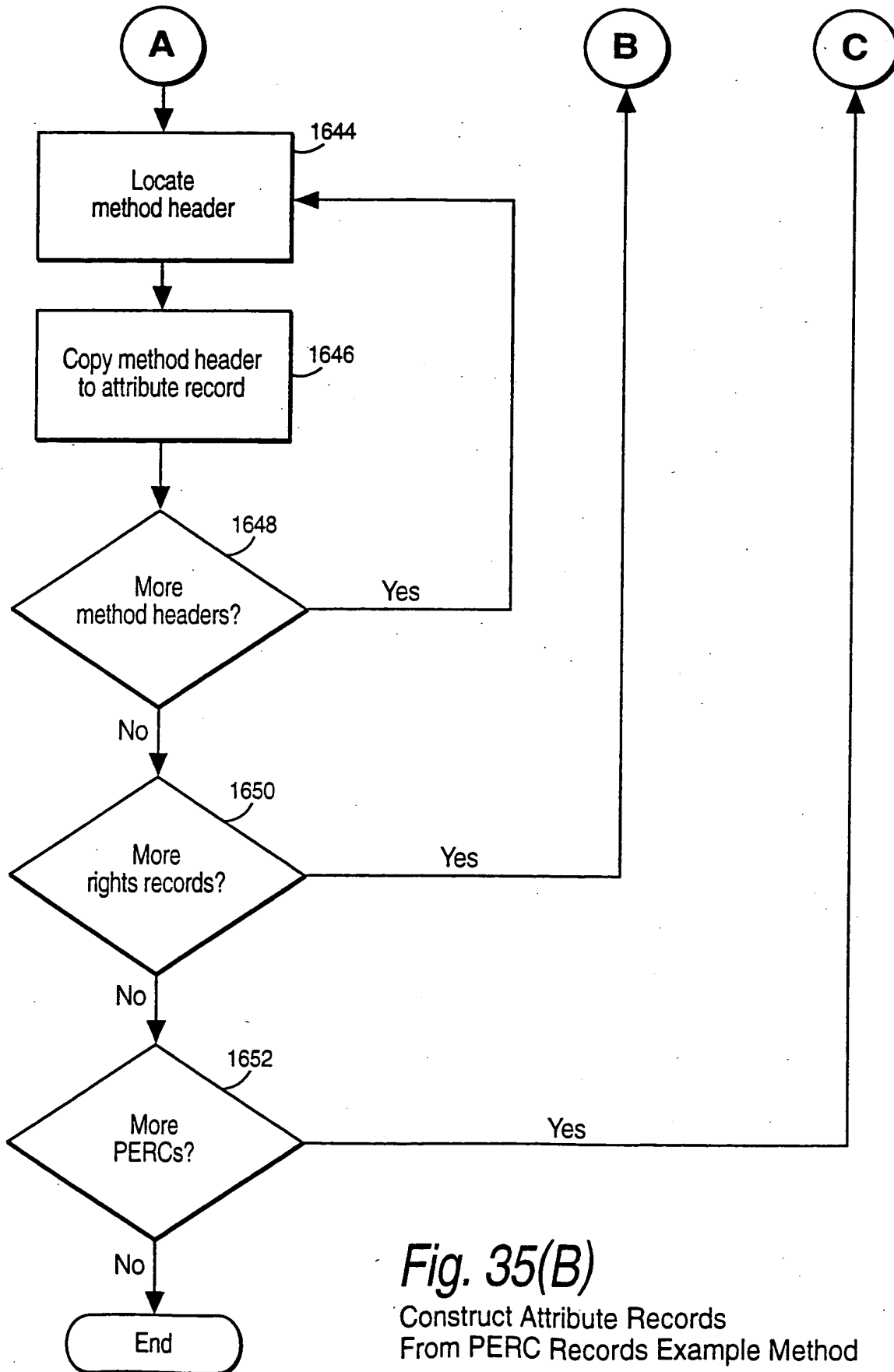
**Fig. 34**

Example Steps For Determining Attributes  
Based On Available Rules And Consequences



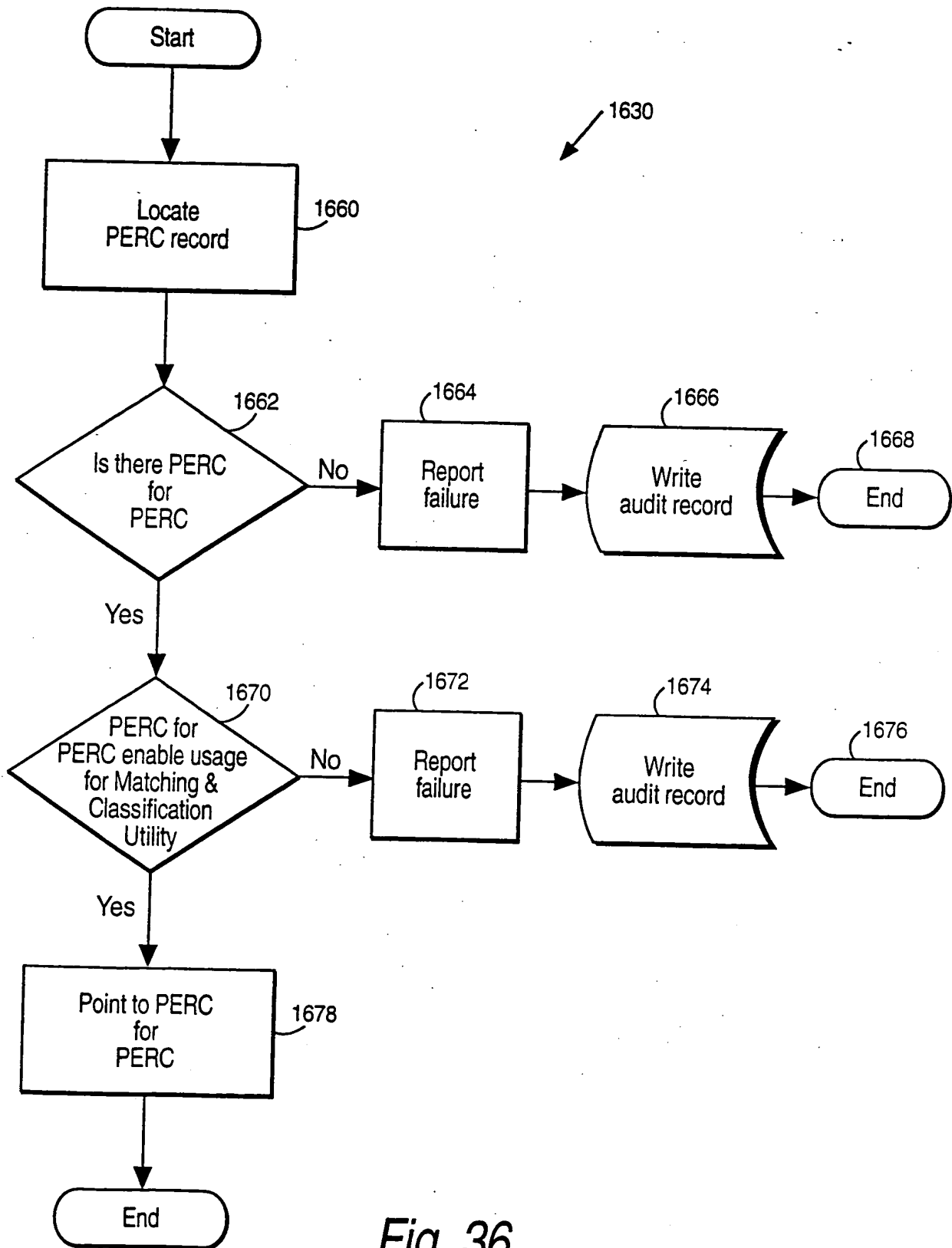
**Fig. 35(A)**

Construct Attribute Records From PERC Records Example Method



**Fig. 35(B)**

Construct Attribute Records  
From PERC Records Example Method



**Fig. 36**

Check Permissions Record Example Steps

**Fig. 37(A)** Example Rights Attribute Record From PERCs

|        |         |           |         |       |       |       |       |       |       |       |       |      |         |
|--------|---------|-----------|---------|-------|-------|-------|-------|-------|-------|-------|-------|------|---------|
| 1680-1 | User ID | Object ID | Attr1   | Attr2 | Attr3 | Attr4 | Attr5 | Attr6 | Attr7 | Attr8 | Attr9 | .... | Attr N  |
|        |         | 1684      | 1686(1) |       |       |       |       |       |       |       |       |      | 1686(N) |

**Fig. 37(B)** Example Attribute Record

| Example Attribute Record |                |          |        |          |           |          |                   |          |        |          |        |        |
|--------------------------|----------------|----------|--------|----------|-----------|----------|-------------------|----------|--------|----------|--------|--------|
| User ID number           | Object ID      | Right ID | Method | Right ID | Method    | Right ID | Method            | Right ID | Method | Right ID | Method | Method |
| CF129CD5                 | 1227-33-1298-2 | Use      | Open   | Meter    | Each time | Budget   | One time purchase | \$1.00   | Bill   | VISA     | AMEX   |        |
| 1680-2                   | 1682           | 1686A    | 1686B  | 1686C    | 1686D     | 1686E    | 1686F             | 1686G    | 1686H  | 1686I    | 1686J  | ....   |

**Fig. 37(C)** Example Attribute Records From PERC Record

FIG. 3. Example Attribute Records From PERC Record

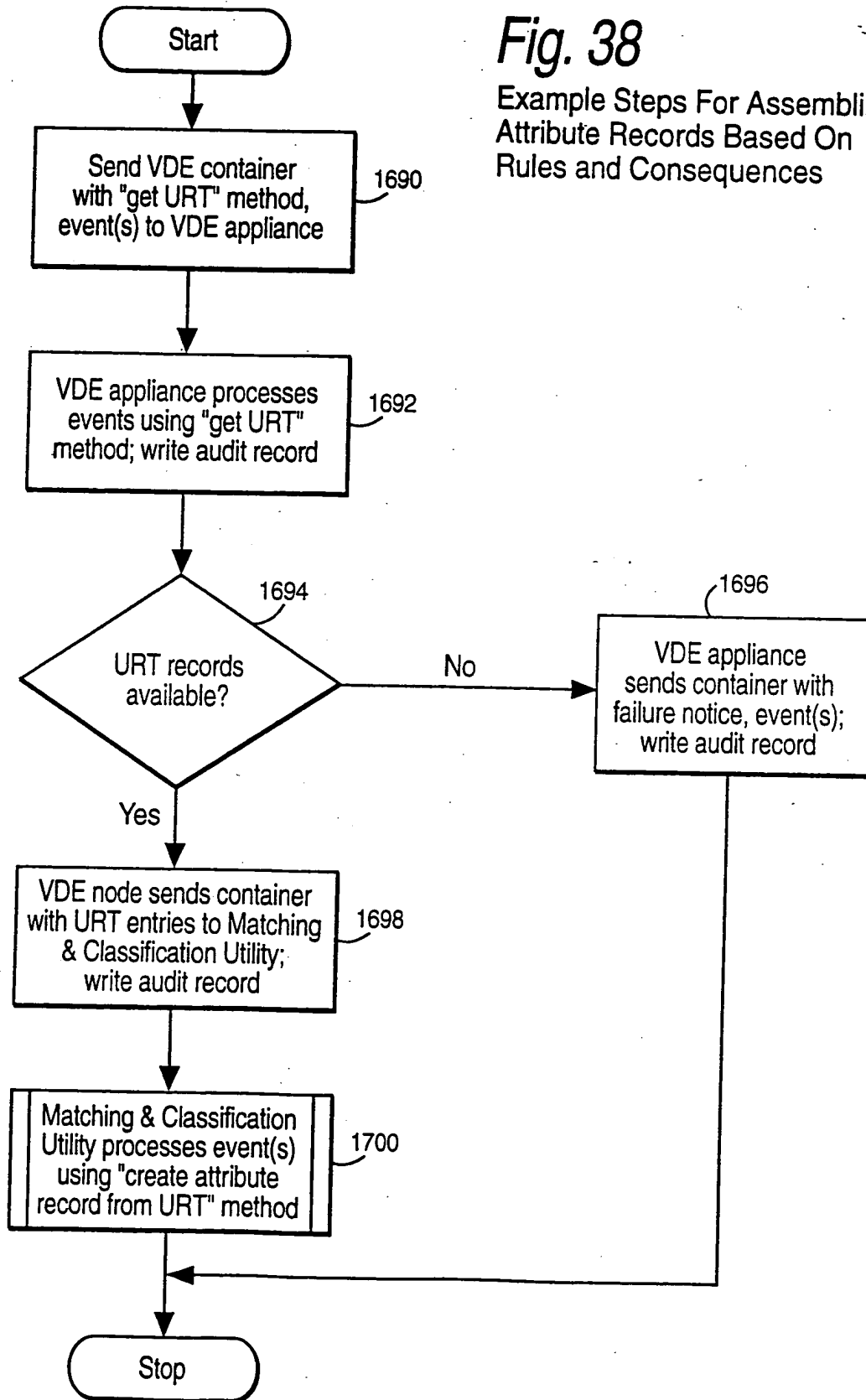
| User ID number | Object ID      | Right ID | Method | Right ID | Method | Right ID | Method | Right ID | Method | Right ID | Method | Right ID | Method | Right ID | Method | Right ID | Method |
|----------------|----------------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|
| CF129CD5       | 1227-33-1298-2 | 27       | 239    | 15       | 546    | 81       | 423    | 1.00     | 02     | 666      | 601    |          |        |          |        |          |        |

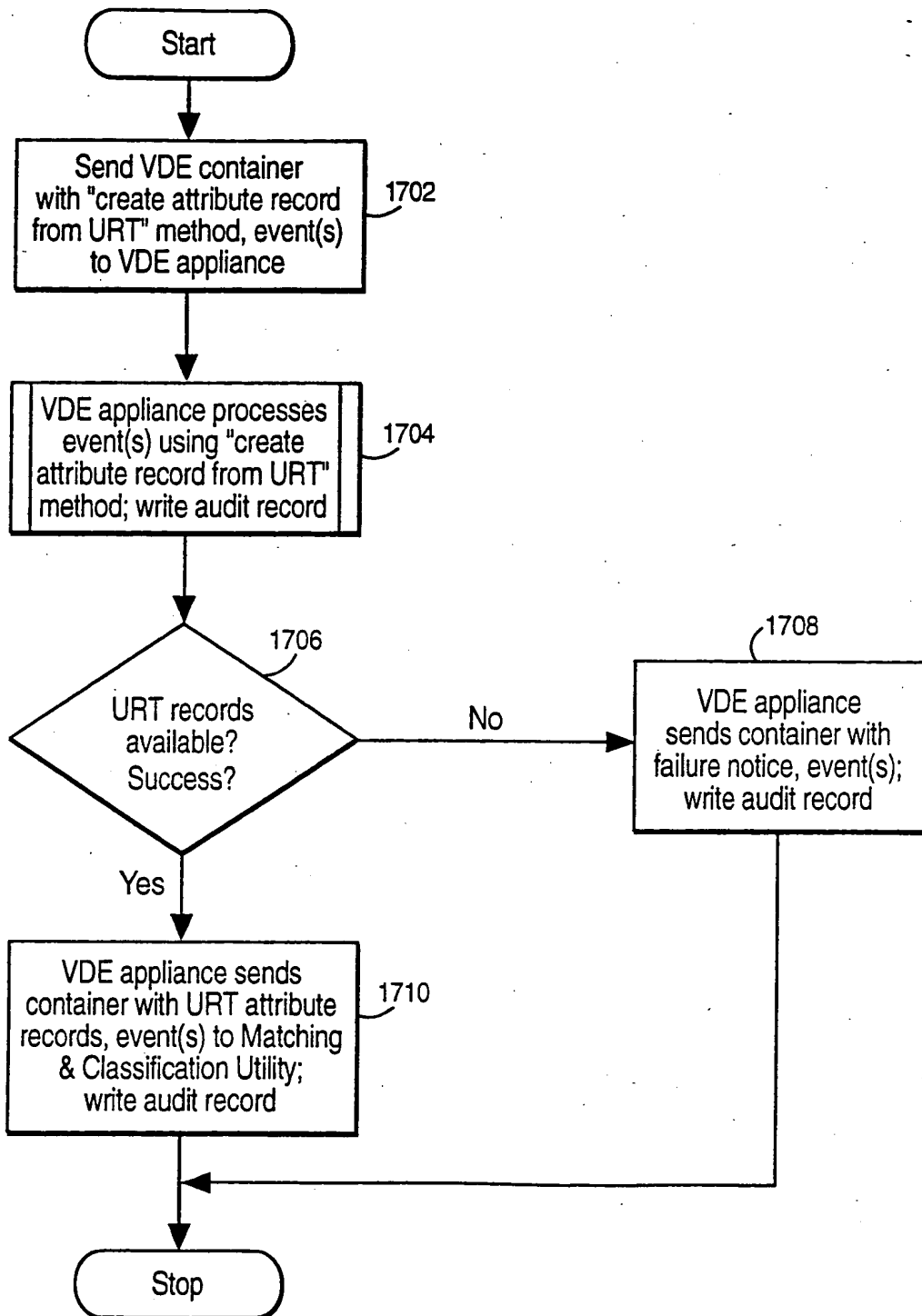
Diagram illustrating the structure of the attribute records, showing the mapping of fields to specific identifiers:

- 1680-3 points to the User ID number field.
- 1682 points to the Object ID field.
- 1684 points to the first Right ID field (27).
- 1686A points to the first Method field (239).
- 1686B points to the second Right ID field (15).
- 1686C points to the second Method field (546).
- 1686D points to the third Right ID field (81).
- 1686E points to the third Method field (423).
- 1686F points to the fourth Right ID field (1.00).
- 1686G points to the fourth Method field (02).
- 1686H points to the fifth Right ID field (666).
- 1686I points to the fifth Method field (601).
- 1686J points to the sixth Right ID field.

**Fig. 38**

Example Steps For Assembling  
Attribute Records Based On  
Rules and Consequences

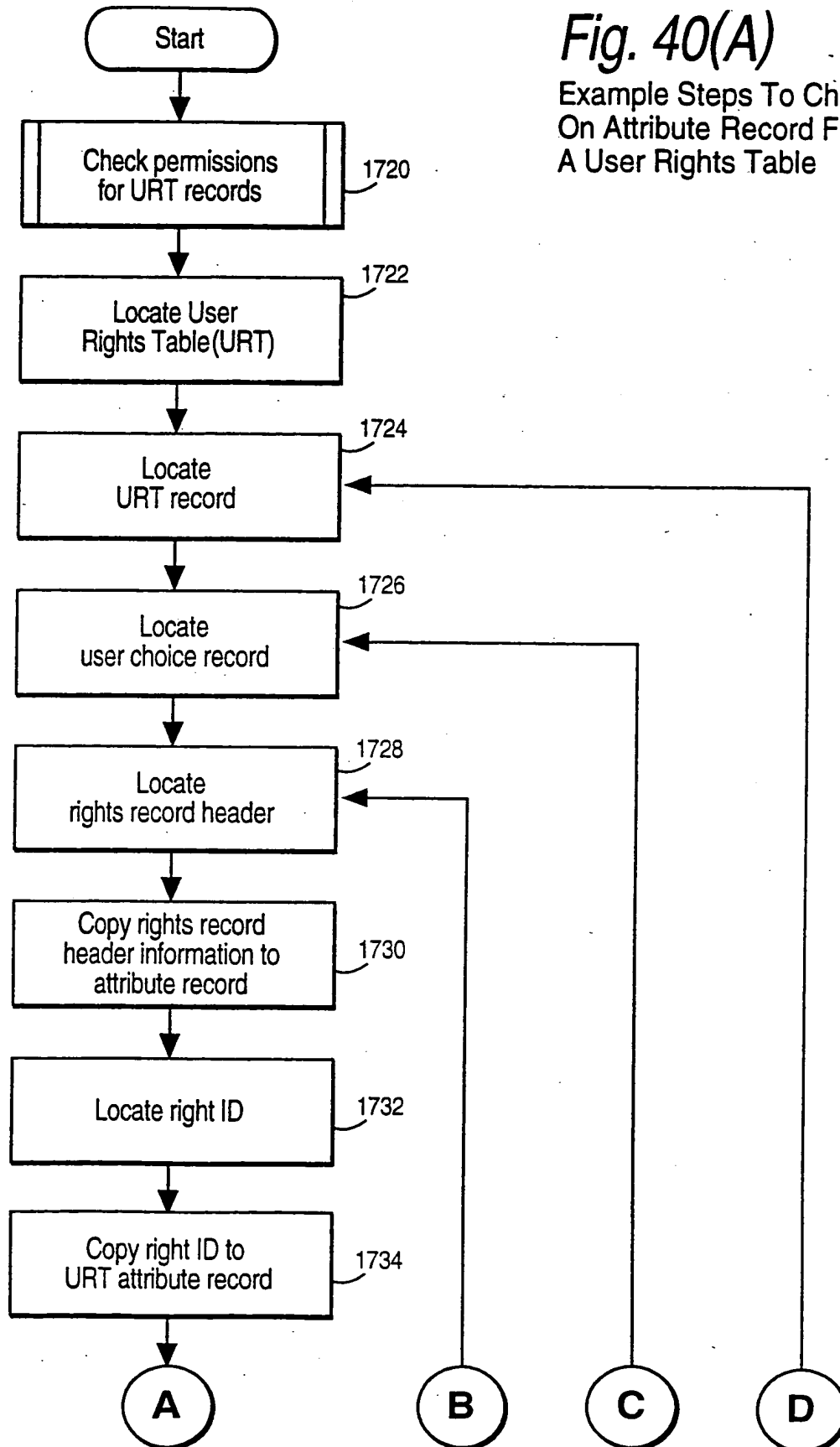




**Fig. 39**

Example Steps For Assembling Attribute Records  
Based On Rules and Consequences





**Fig. 40(A)**

Example Steps To Check  
On Attribute Record From  
A User Rights Table

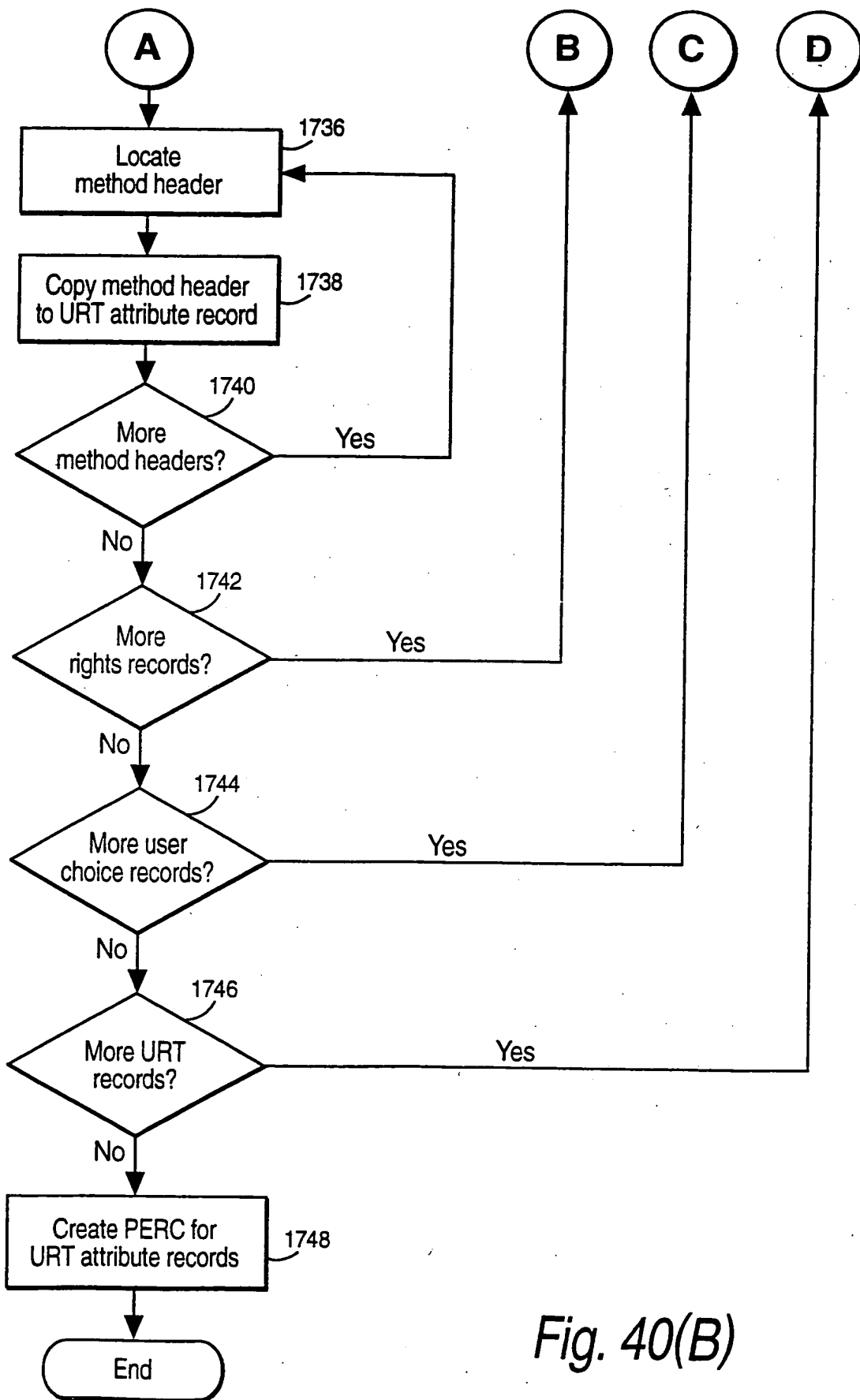
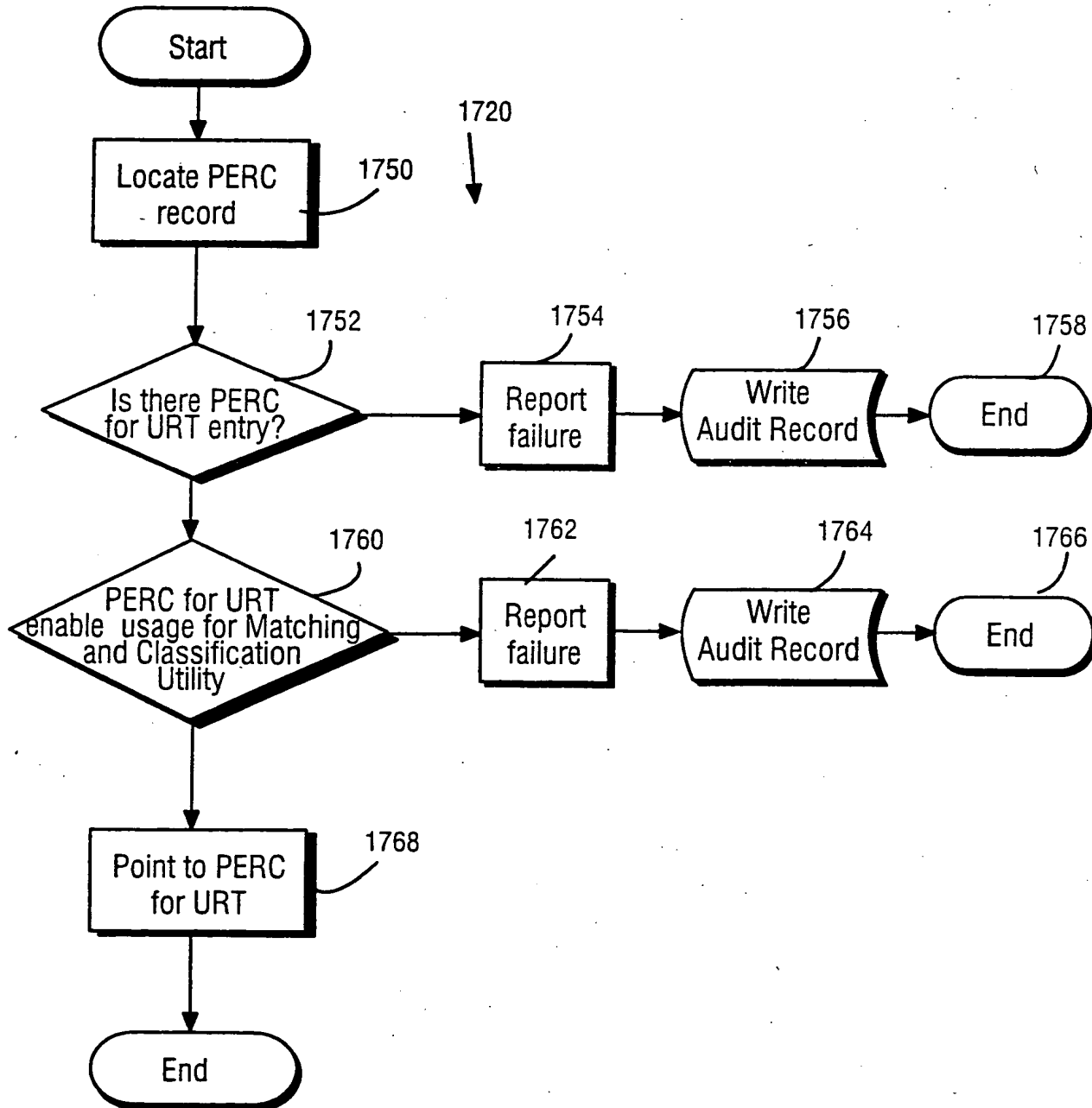


Fig. 40(B)

**Fig. 41**

Contract attribute records from  
PERC records method example



|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

Fig. 42(A) Example Rights Attribute Record From URT

1770-1

|         |           |       |       |       |       |       |       |       |       |       |      |        |
|---------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------|
| User ID | Object ID | Attr1 | Attr2 | Attr3 | Attr4 | Attr5 | Attr6 | Attr7 | Attr8 | Attr9 | .... | Attr N |
|---------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------|

1772 1774 1776(1) 1776(N)

Fig. 42(B) Example Rights Attribute Record From URT

1770-2

| User ID number | Object ID      | Right ID | Method | Right ID | Method    | Right ID | Method            | Right ID | Method | Right ID | Method | .... |
|----------------|----------------|----------|--------|----------|-----------|----------|-------------------|----------|--------|----------|--------|------|
| CF129CD5       | 1227-33-1298-2 | Use      | Open   | Meter    | Each time | Budget   | One time purchase | \$1.00   | Bill   | VISA     |        |      |

1772 1774 1776A 1776B 1776C 1776D 1776E 1776F 1776G 1776H 1776I

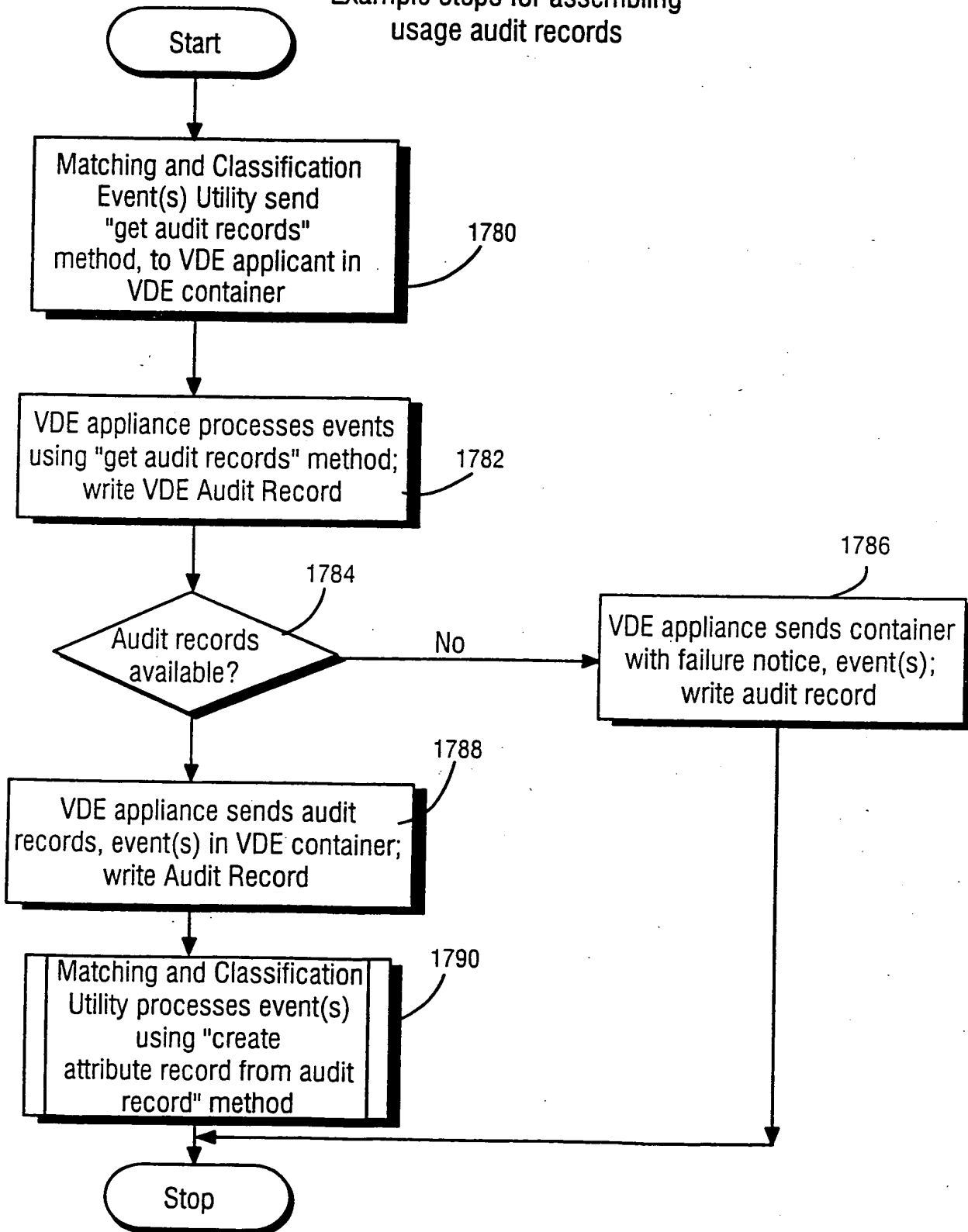
Fig. 42(C) Example User Choice Attribute Records (From URT)

1770-3

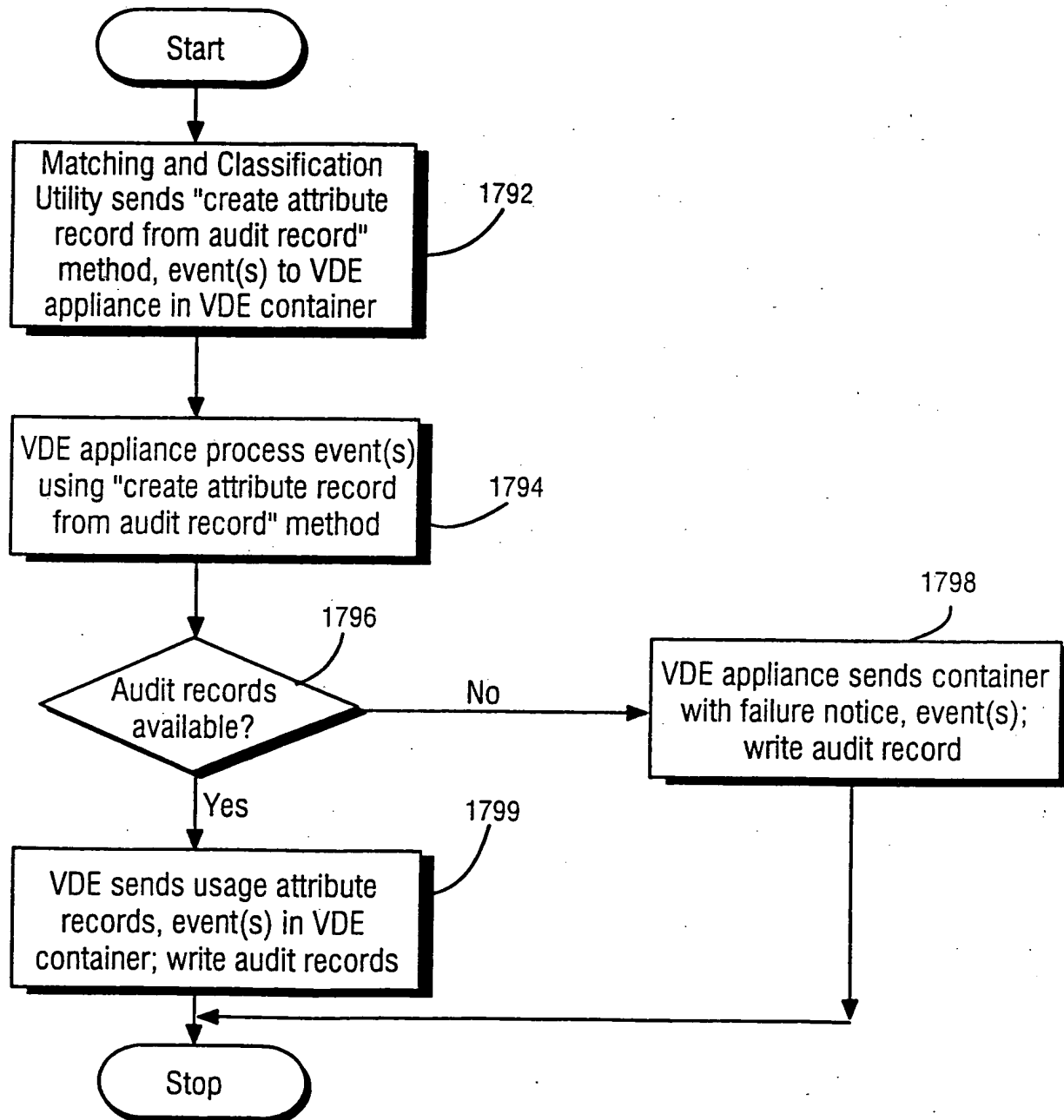
| User ID number | Object ID      | Right ID | Method | Right ID | Method | Right ID | Method | Right ID | Method | .... |
|----------------|----------------|----------|--------|----------|--------|----------|--------|----------|--------|------|
| CF129CD5       | 1227-33-1298-2 | 27       | 239    | 15       | 546    | 81       | 423    | 1.00     | 02     | 666  |

1772 1774 1776A 1776B 1776C 1776D 1776E 1776F 1776G 1776H 1776I

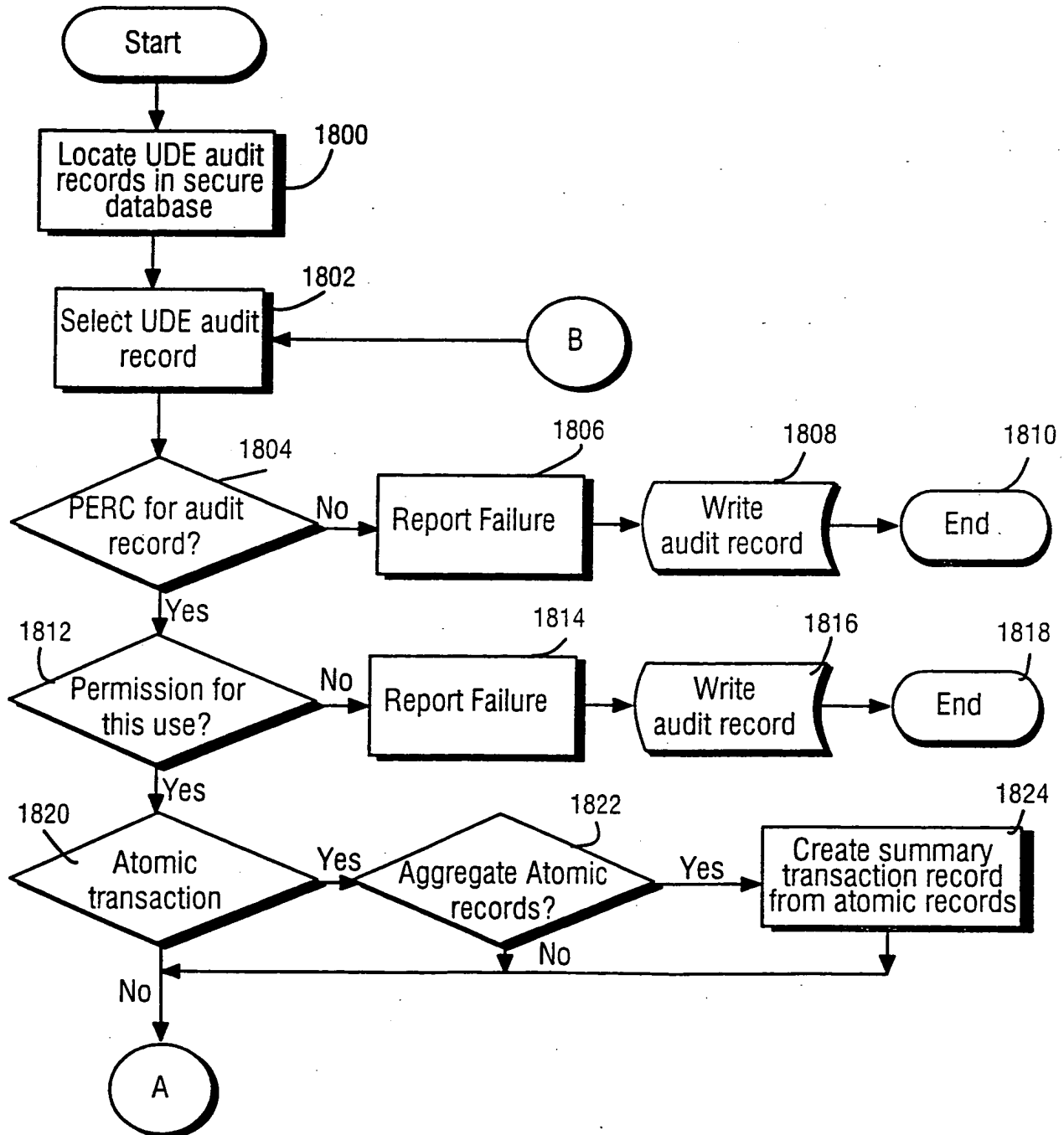
**Fig. 43**  
Example steps for assembling  
usage audit records



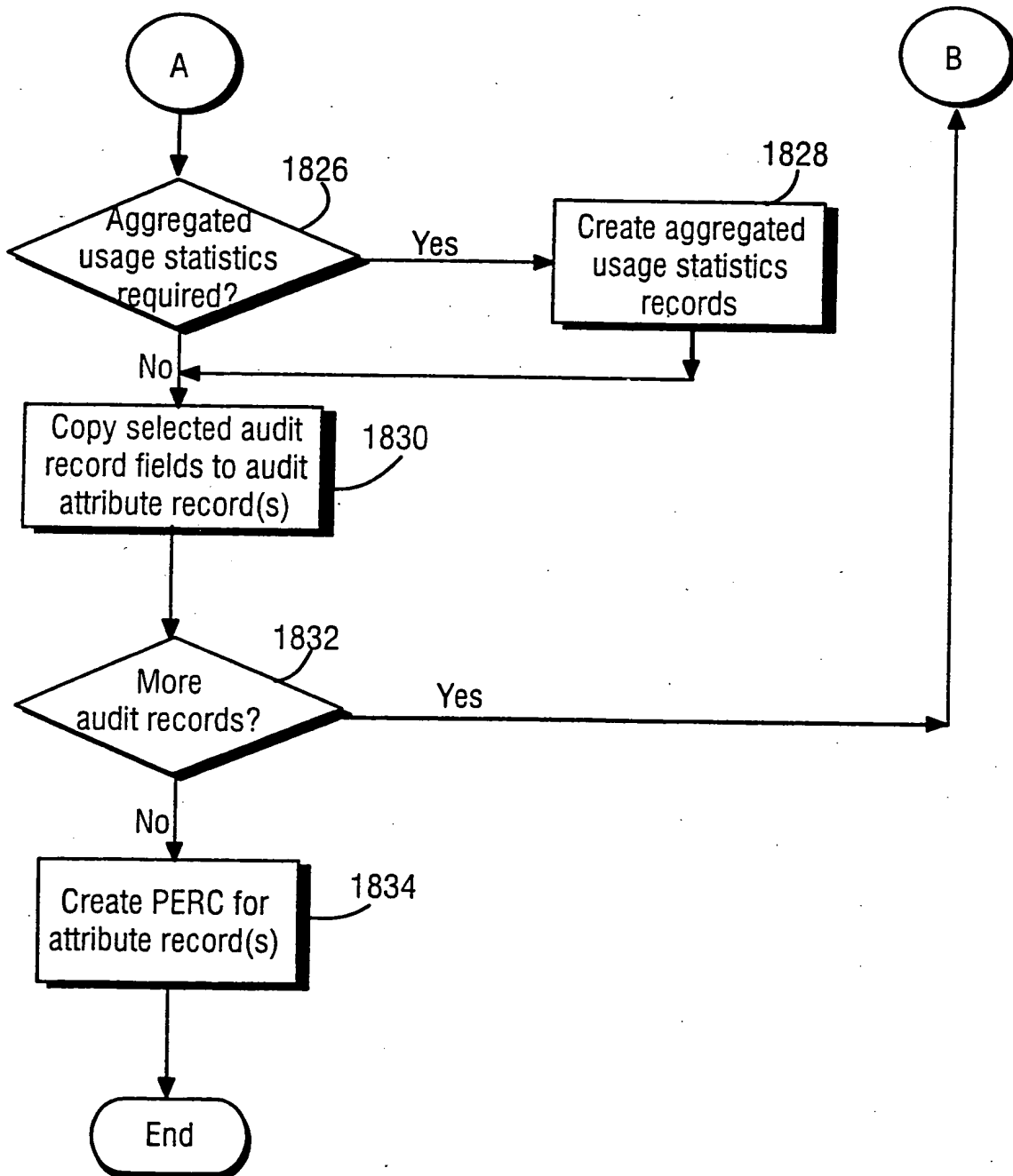
**Fig. 44**  
Example steps for assembling usage  
audit records



**Fig. 45(A)**  
Example steps to create audit  
attribute records



**Fig. 45(B)**  
Example steps to create audit  
attribute records





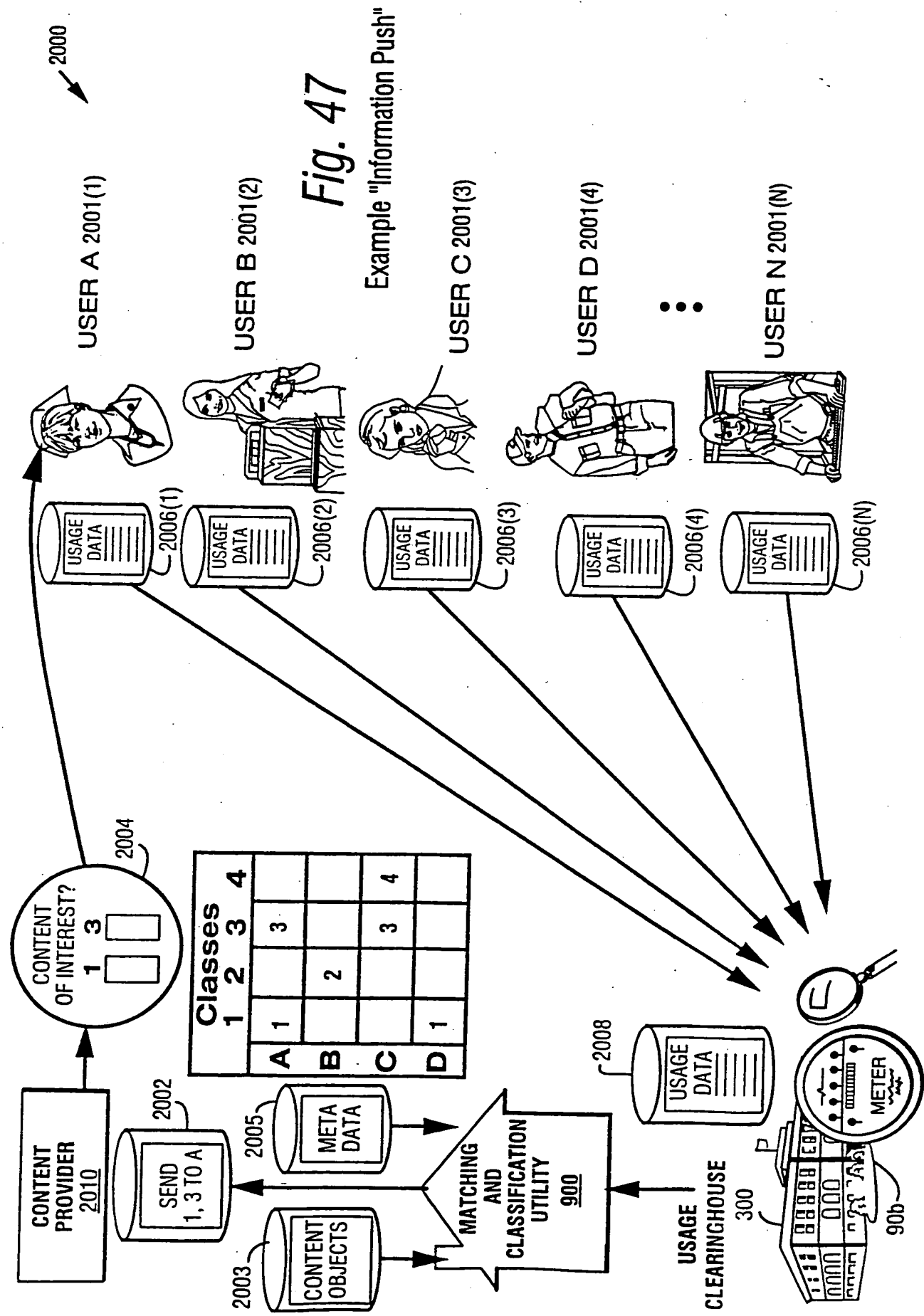
1830-1

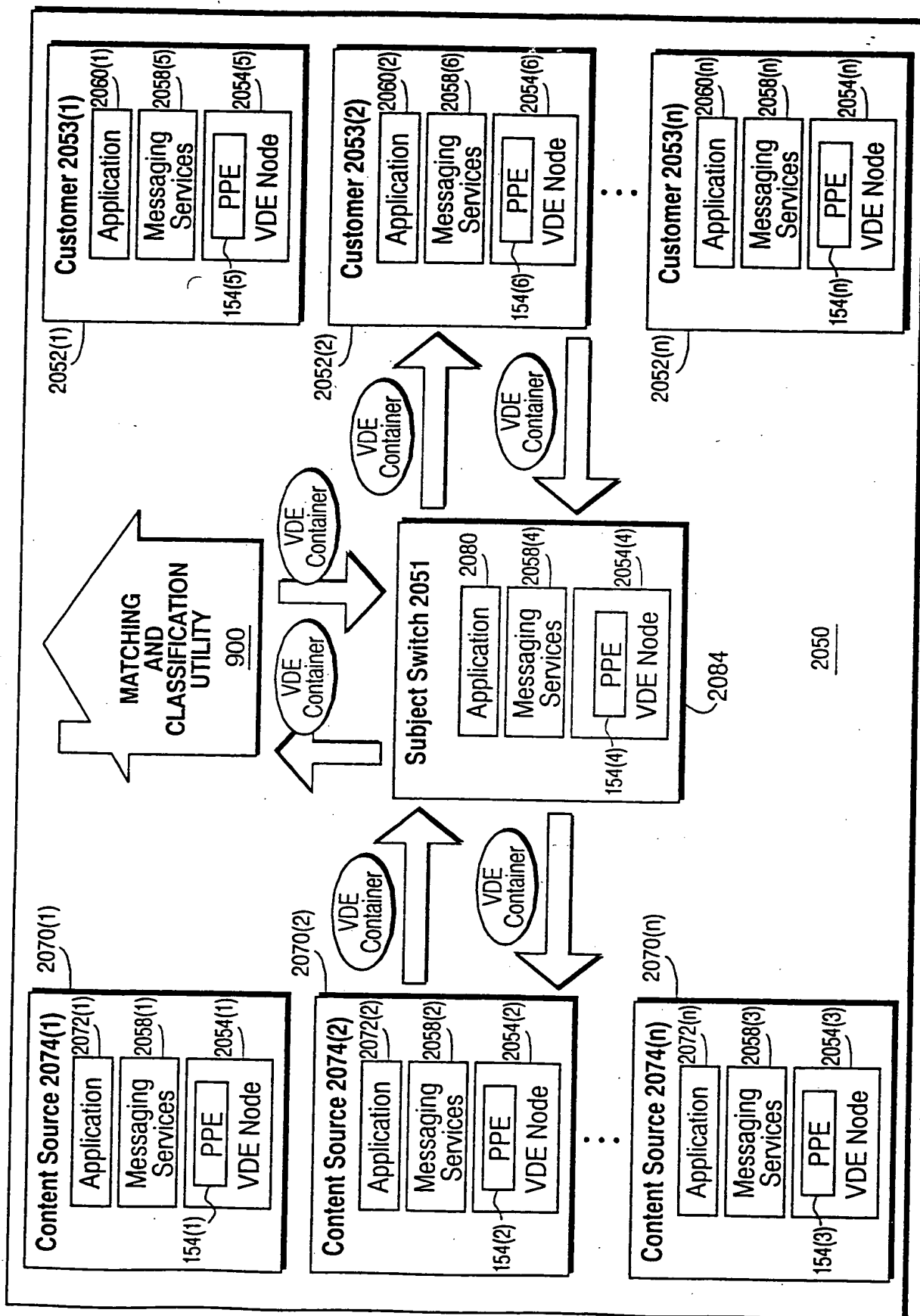
-1836(1)

**Fig. 46(B)**

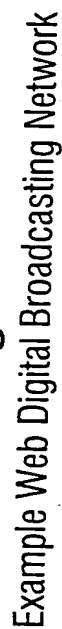
1830-2 User

000020\*69286460





**Fig. 47(A)** Matching and Classification Utility 900 Supports "Push" models using Subject Switching and Messaging Services



**Fig. 48**

2300



MG-895-67C p.3

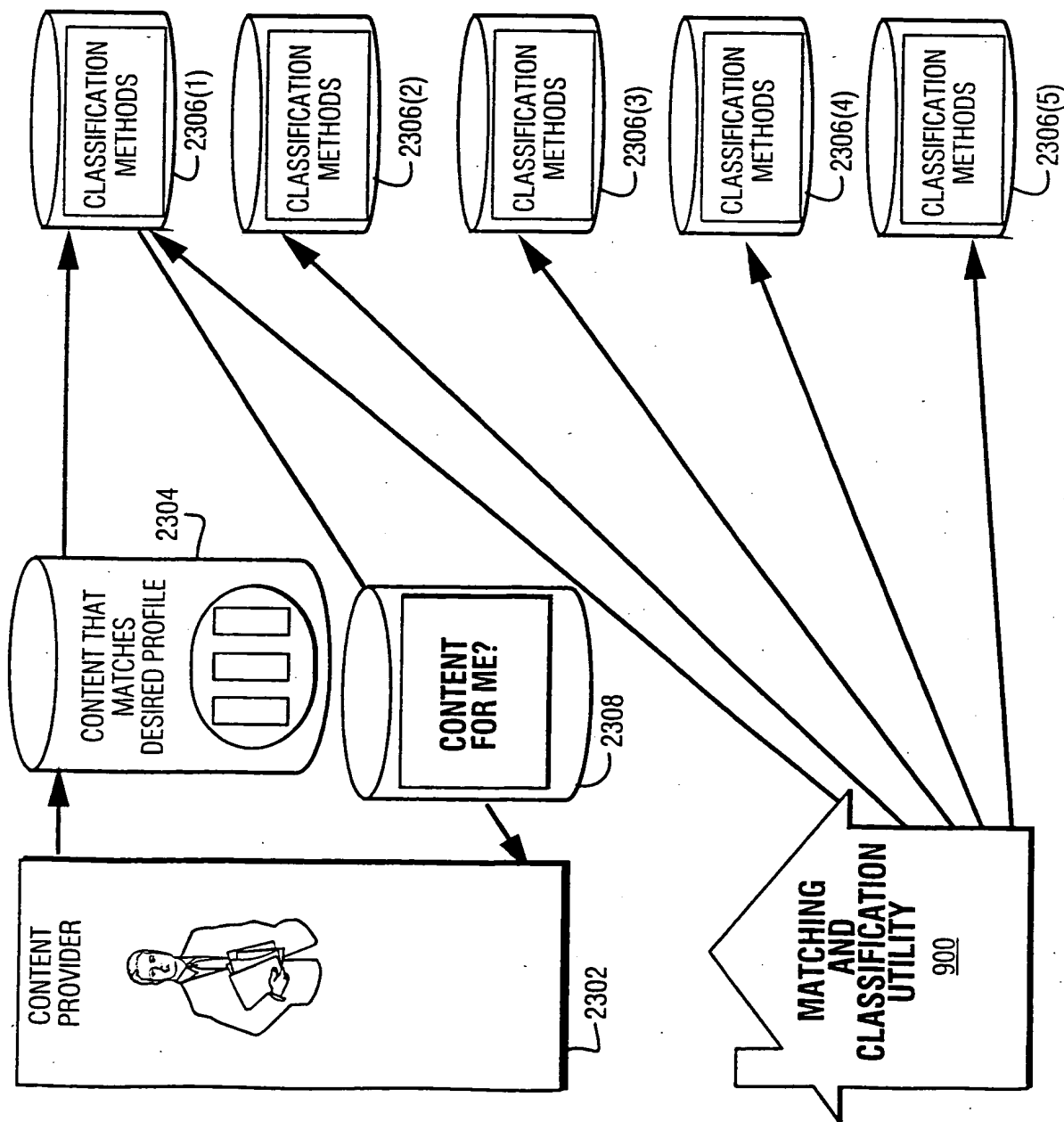
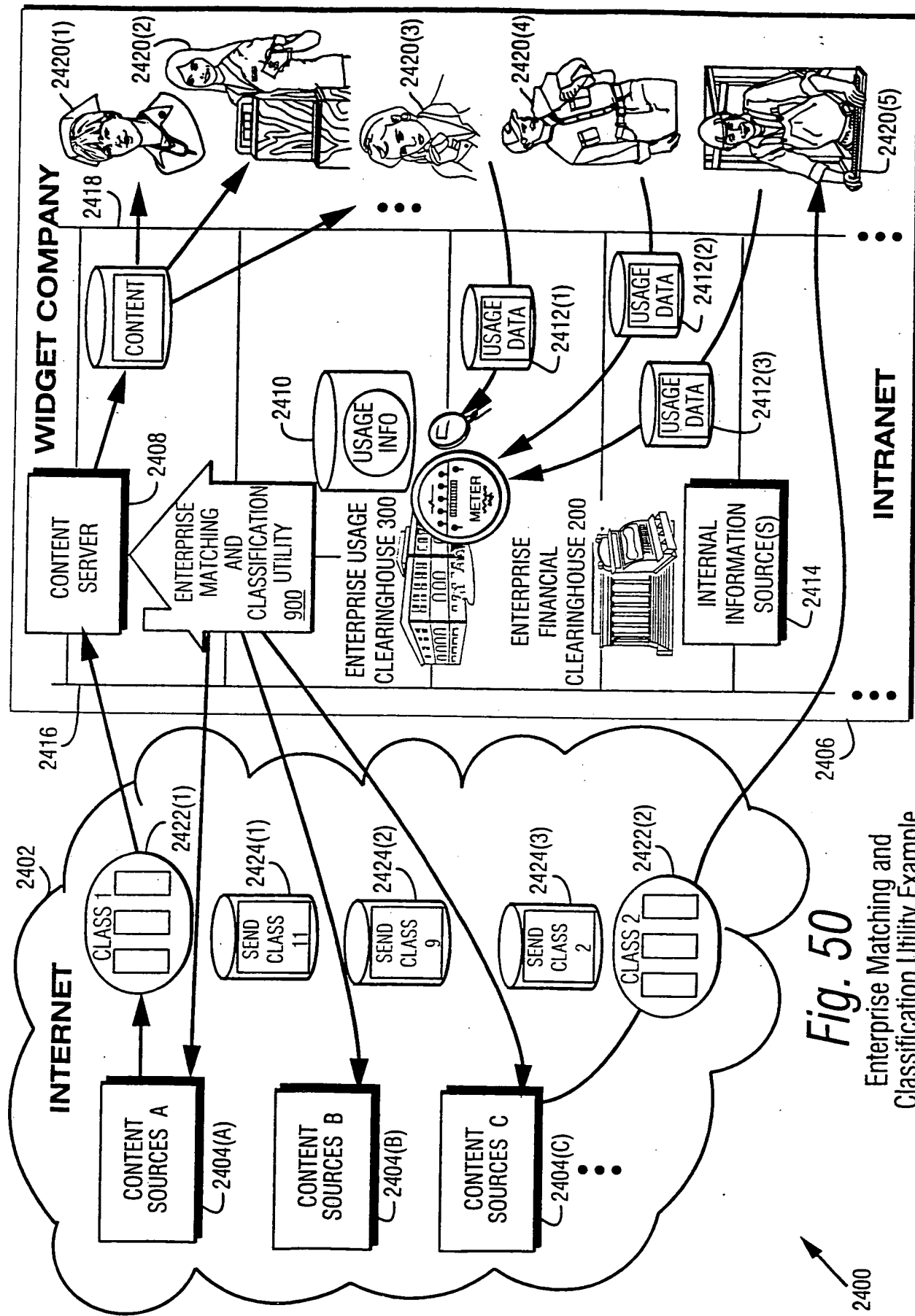


Fig. 49 Example "Consumer Pull"

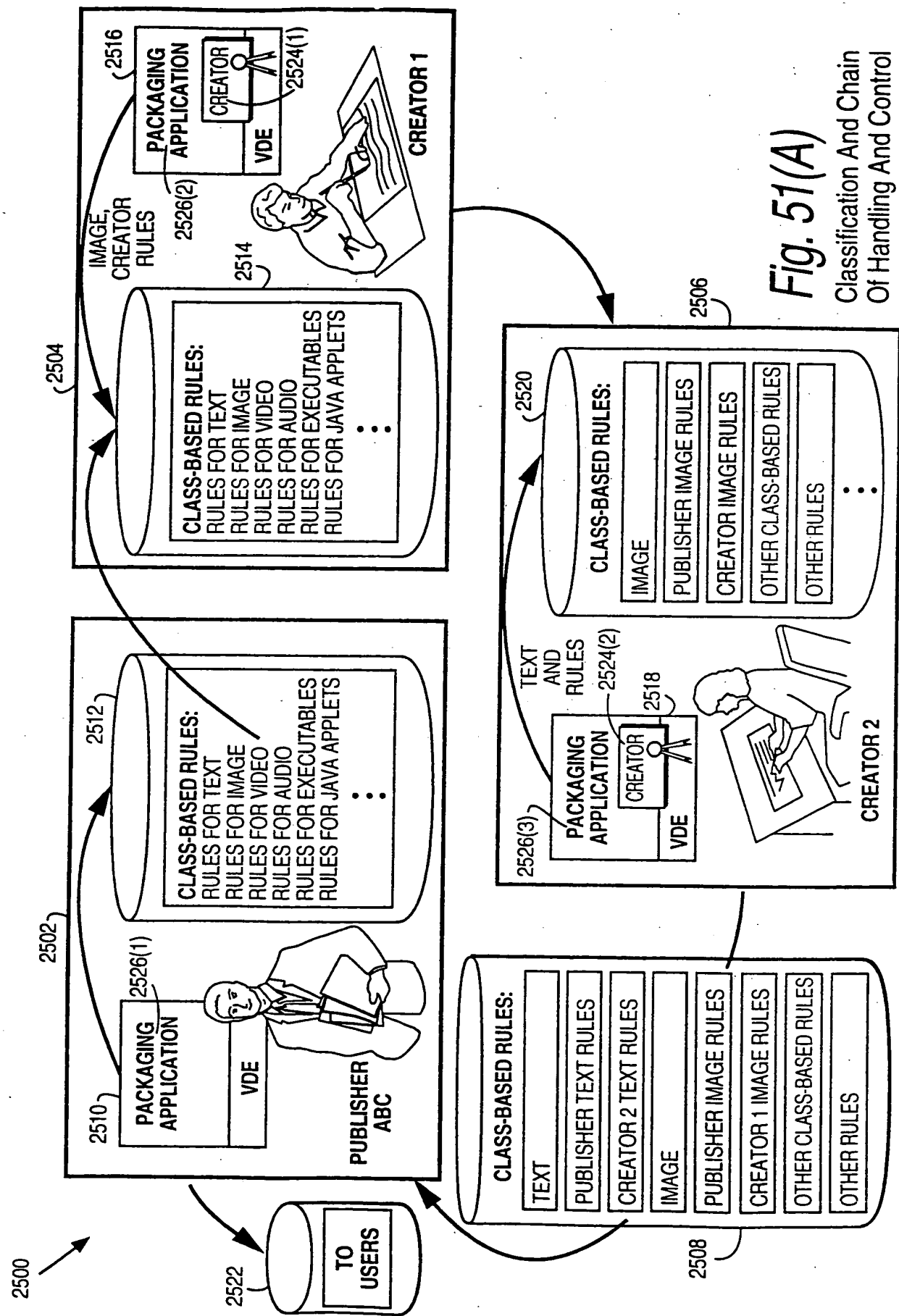
000020-69286600



**Fig. 50**  
Enterprise Matching and  
Classification Utility Example

000020-69266000

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | C.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |



**Fig. 51(A)**  
Classification And Chain  
Of Handling And Control





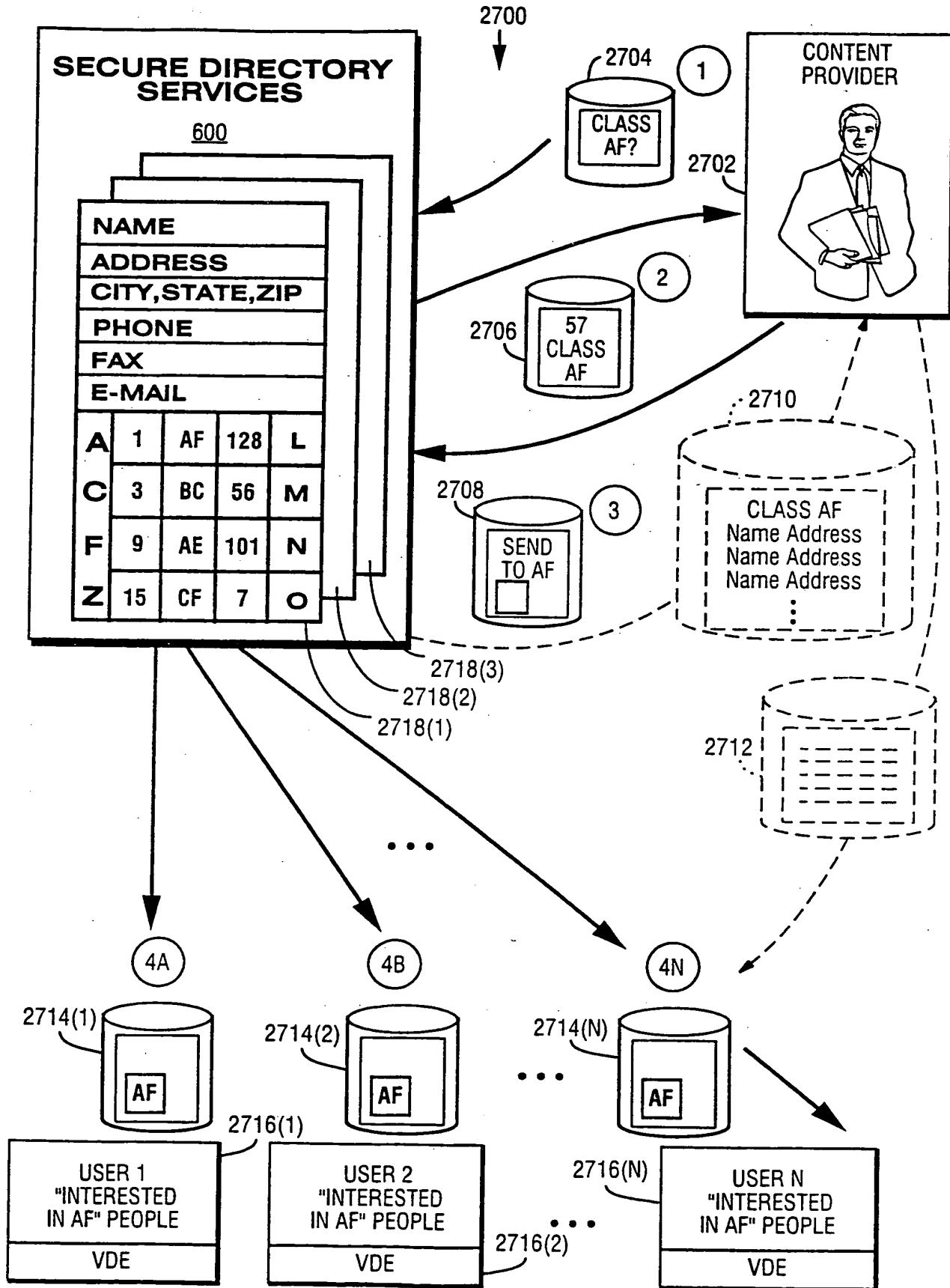
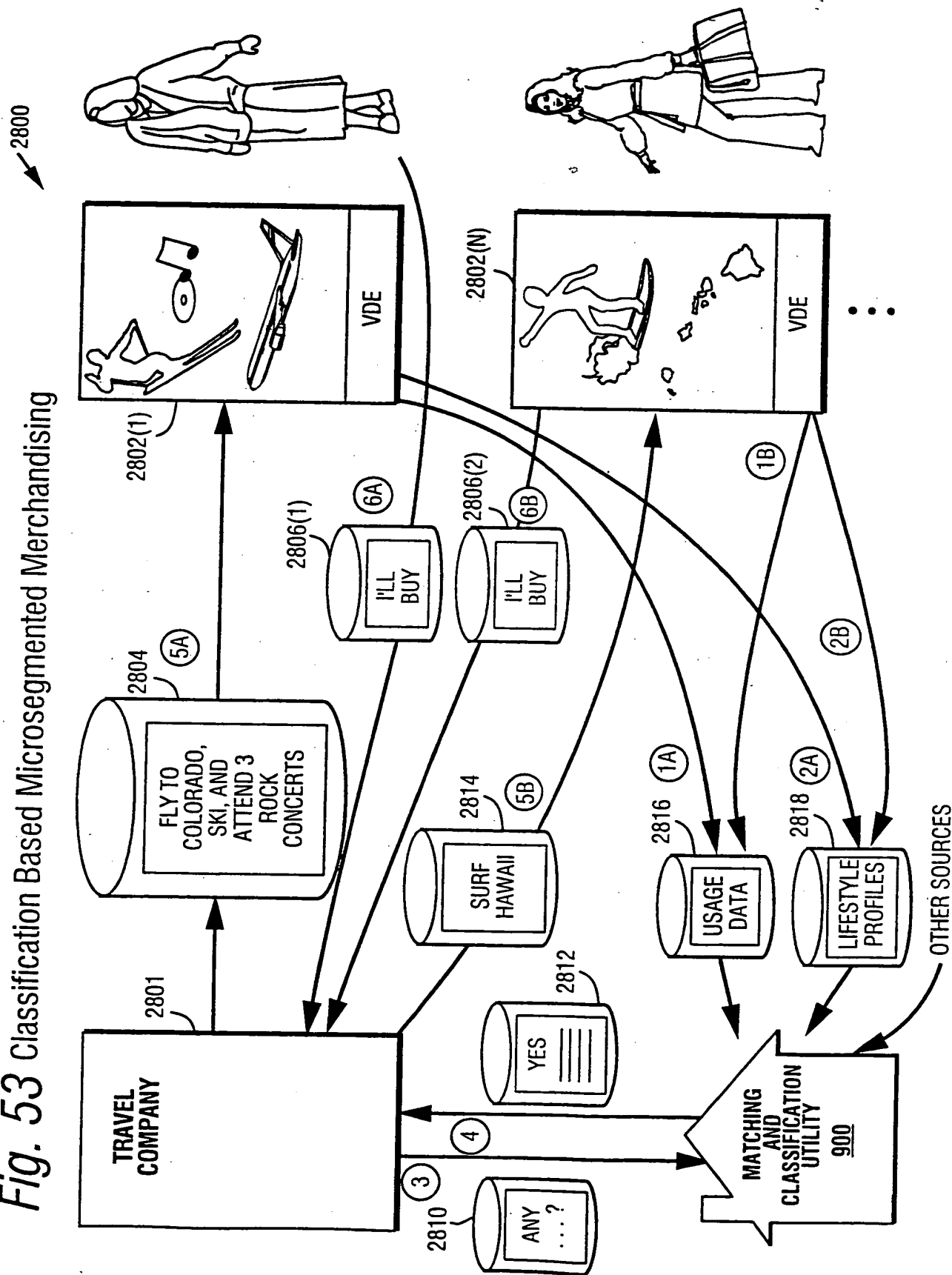
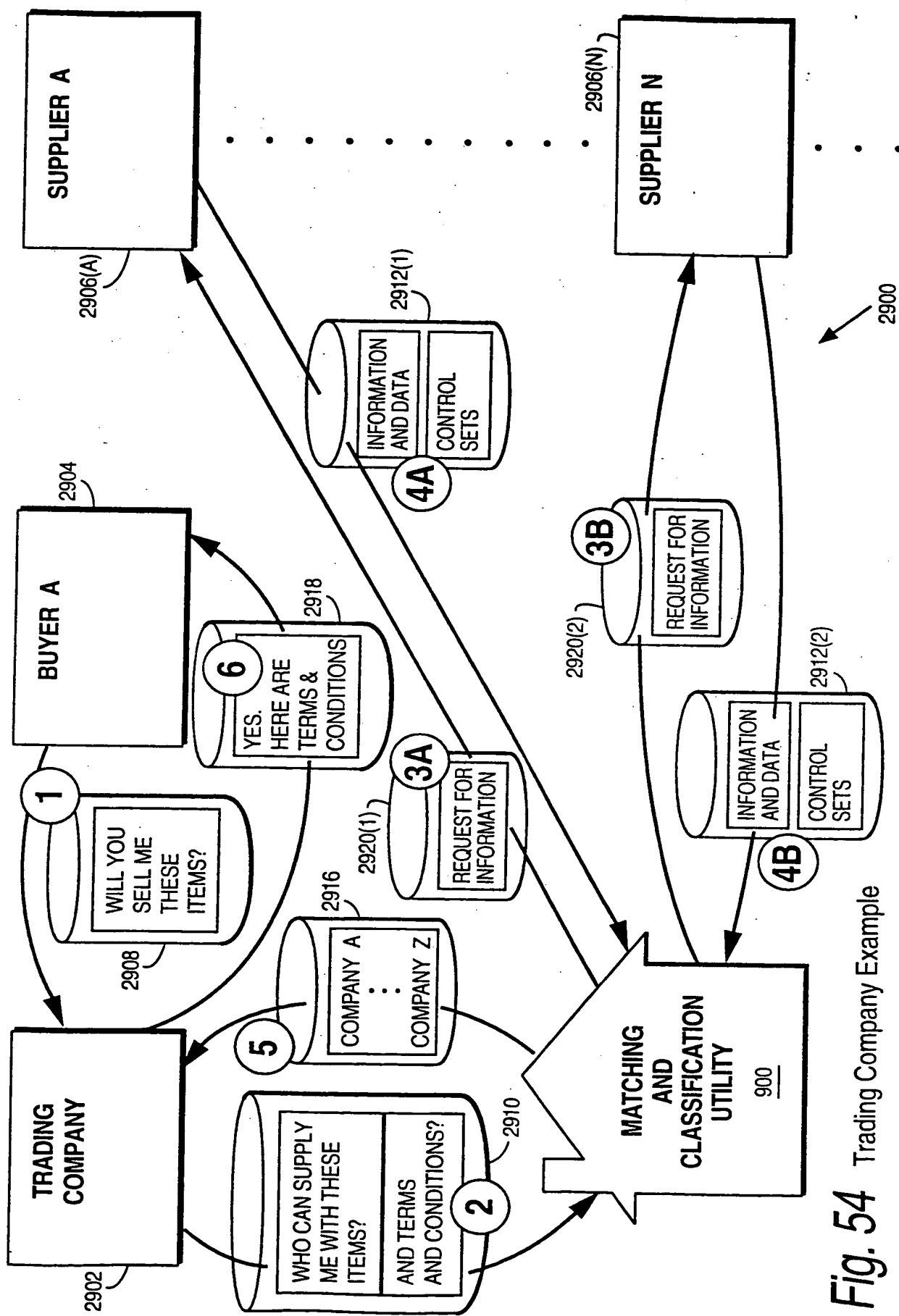


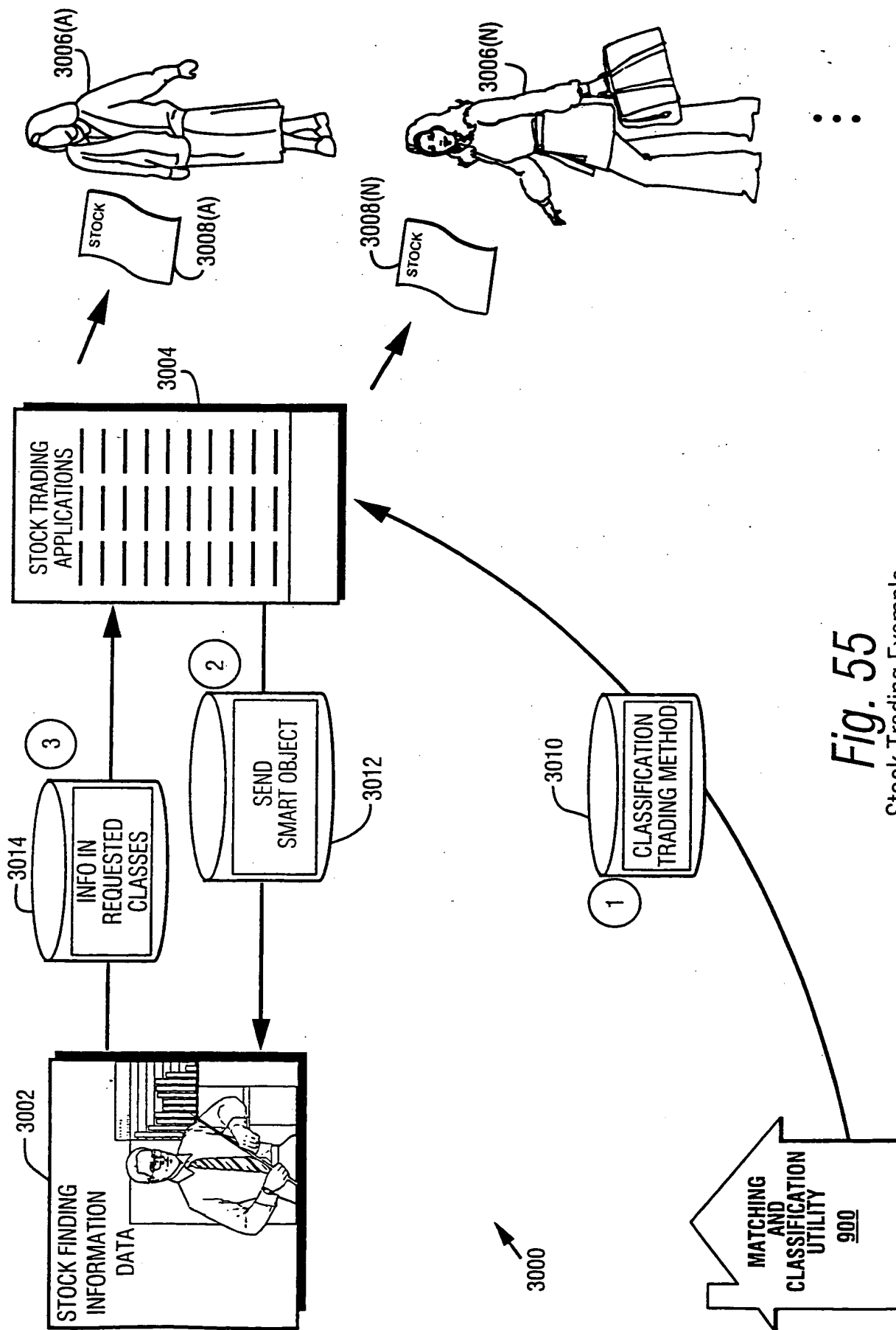
Fig. 52 Secure Directory Services

Fig. 53 Classification Based Microsegmented Merchandising

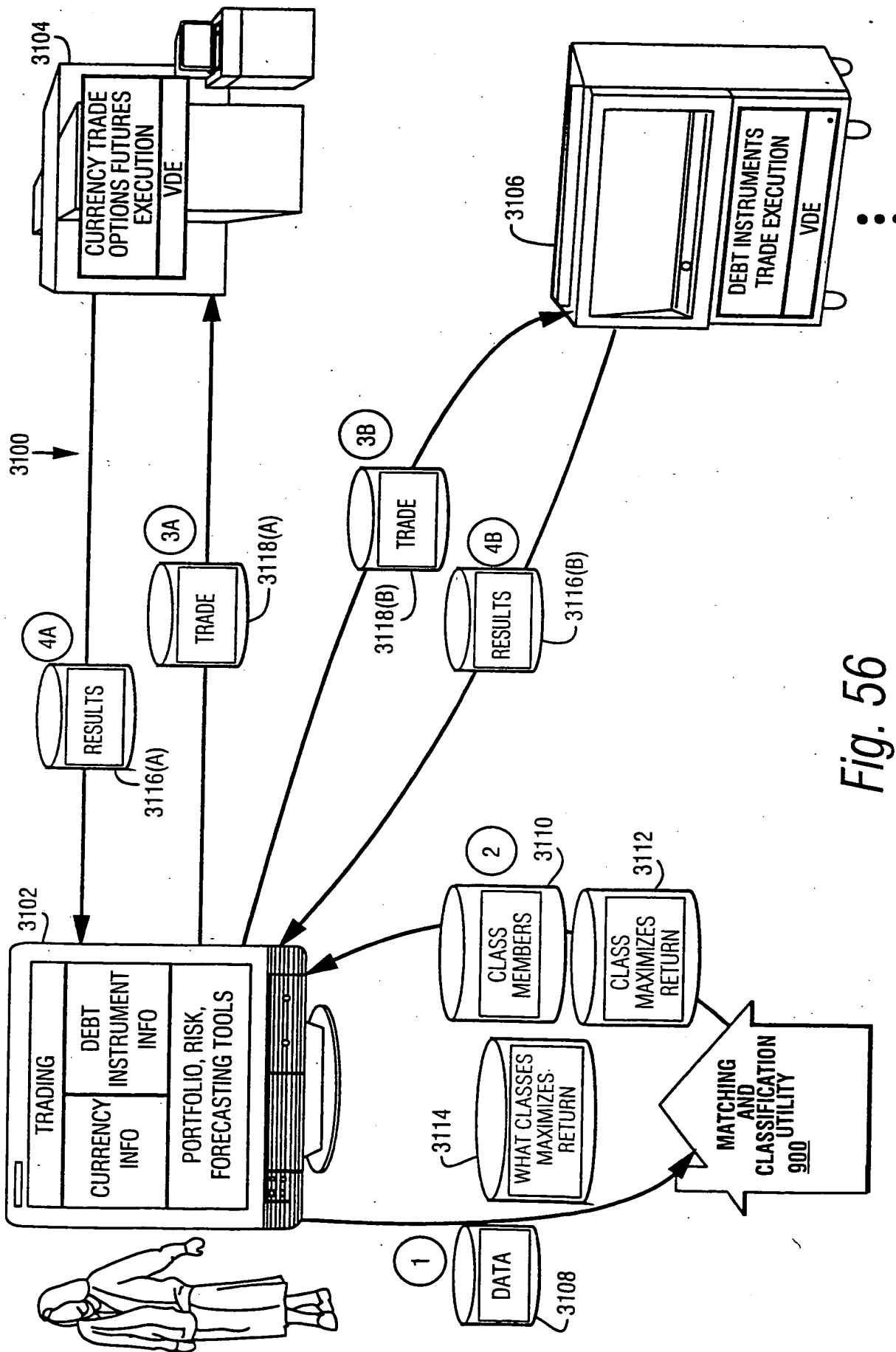




**Fig. 54** Trading Company Example

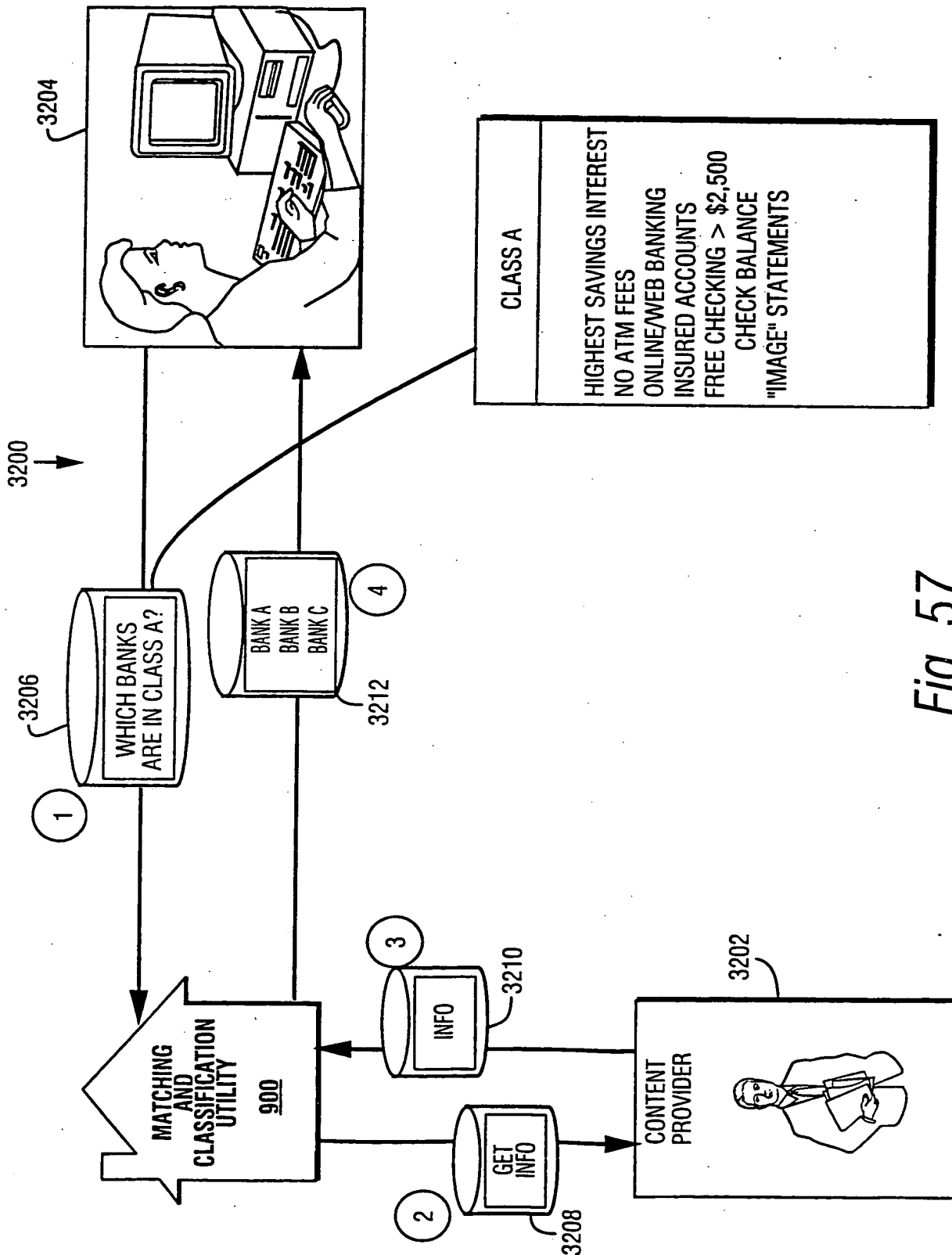


**Fig. 55**  
Stock Trading Example



**Fig. 56**

Currency Trading Example



**Fig. 57**

Consumer Banking Example Locating Services In A Class!

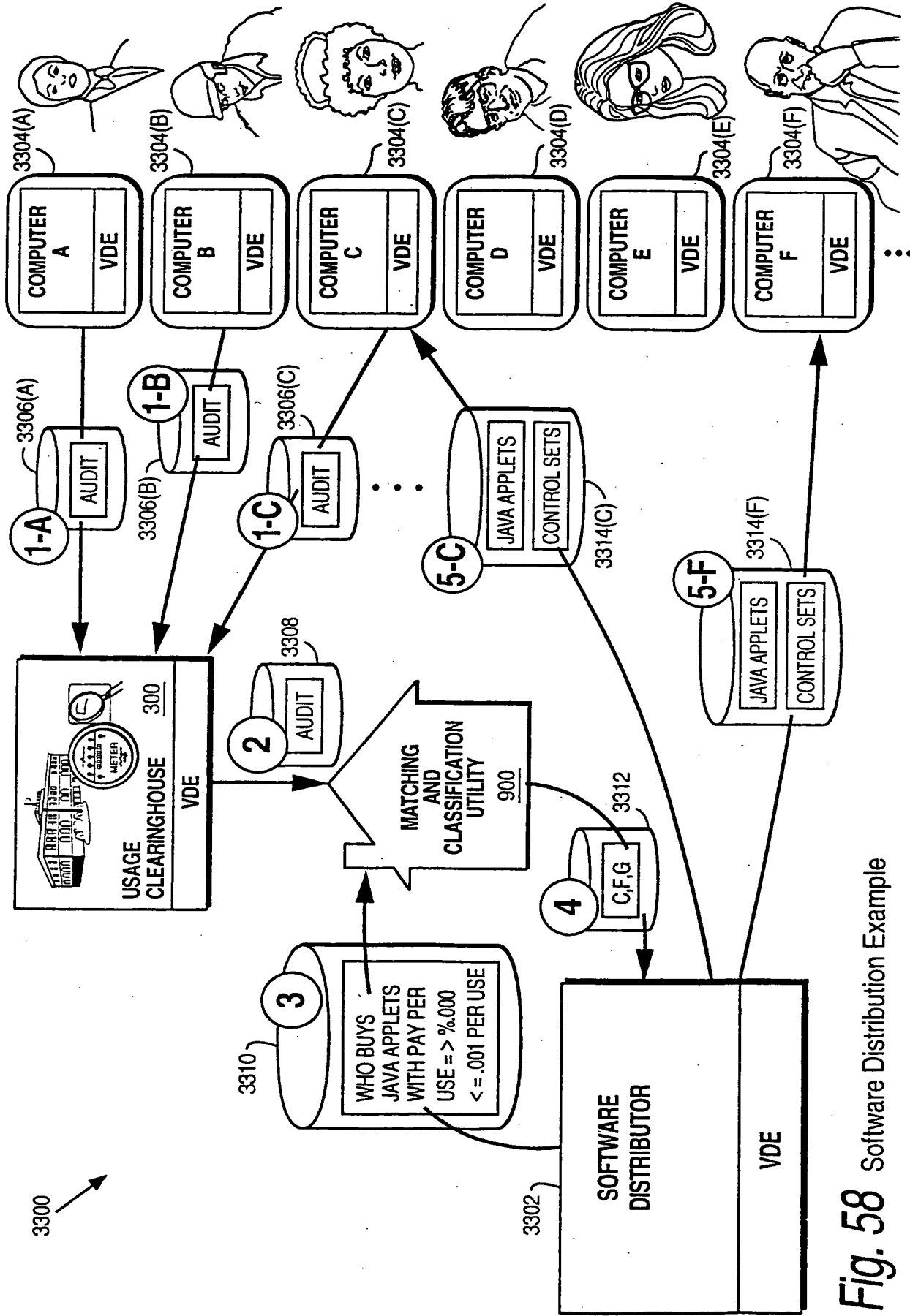
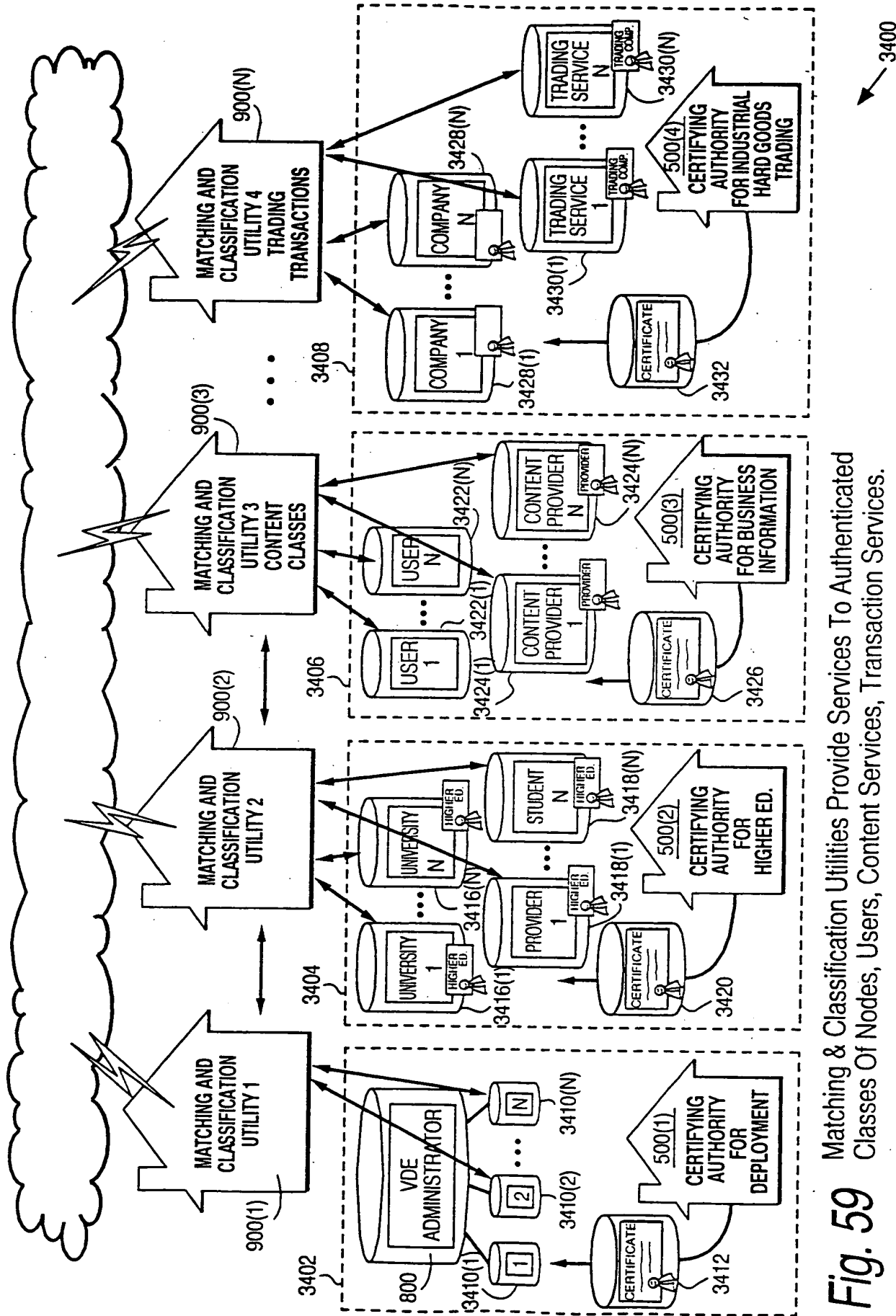
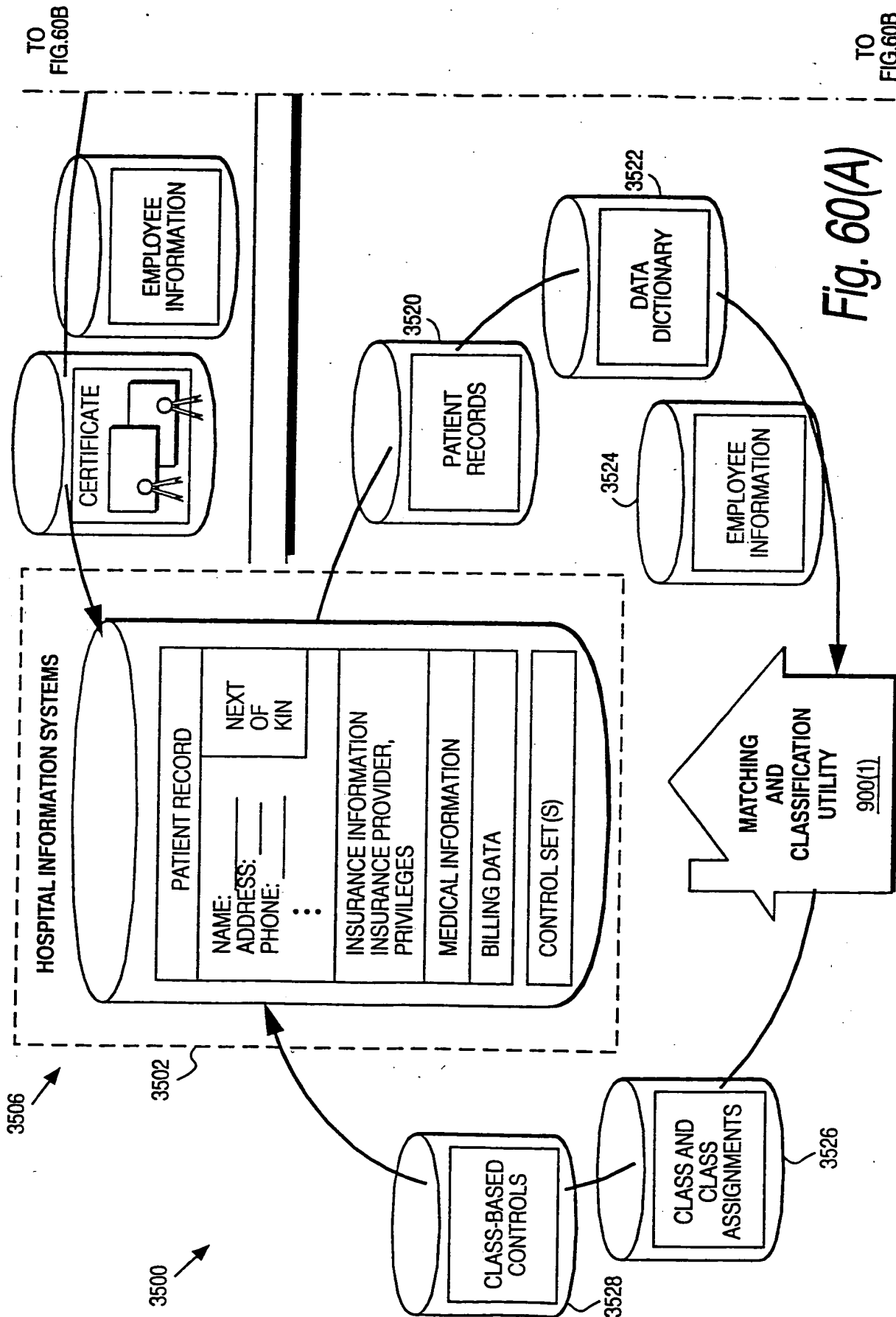


Fig. 58 Software Distribution Example



**Fig. 59** Matching & Classification Utilities Provide Services To Authenticated Classes Of Nodes, Users, Content Services, Transaction Services.

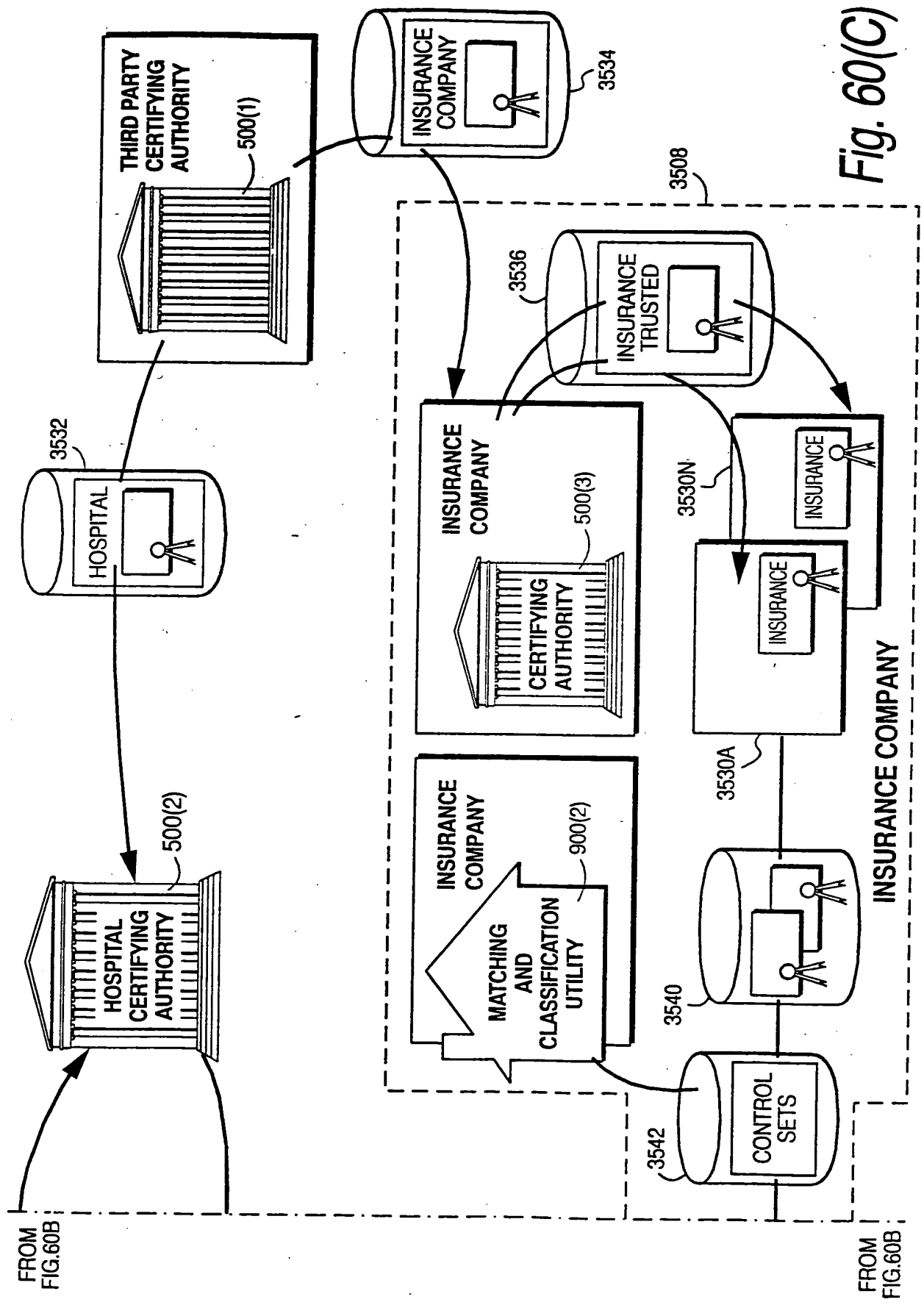






000020-69286160

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |



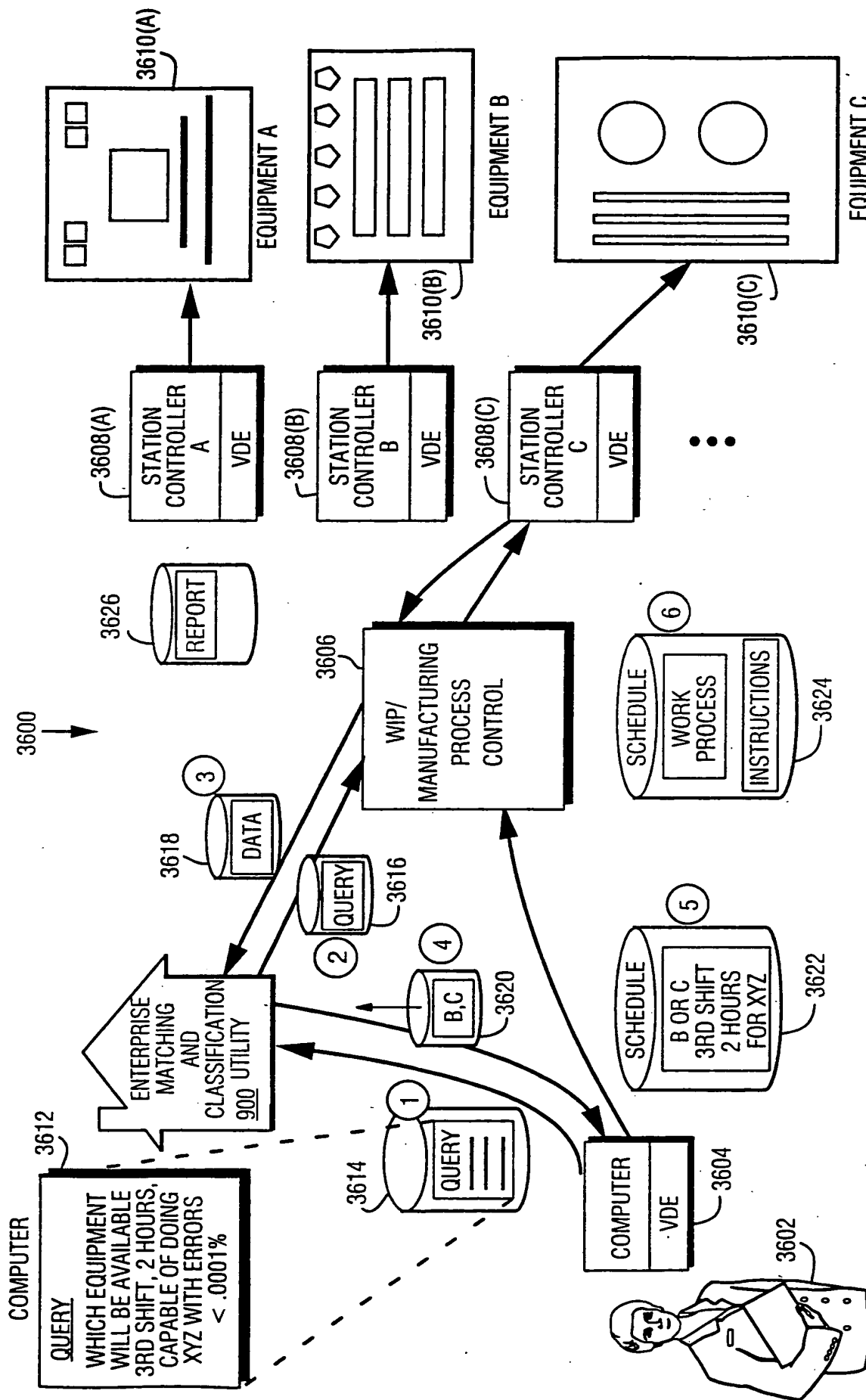
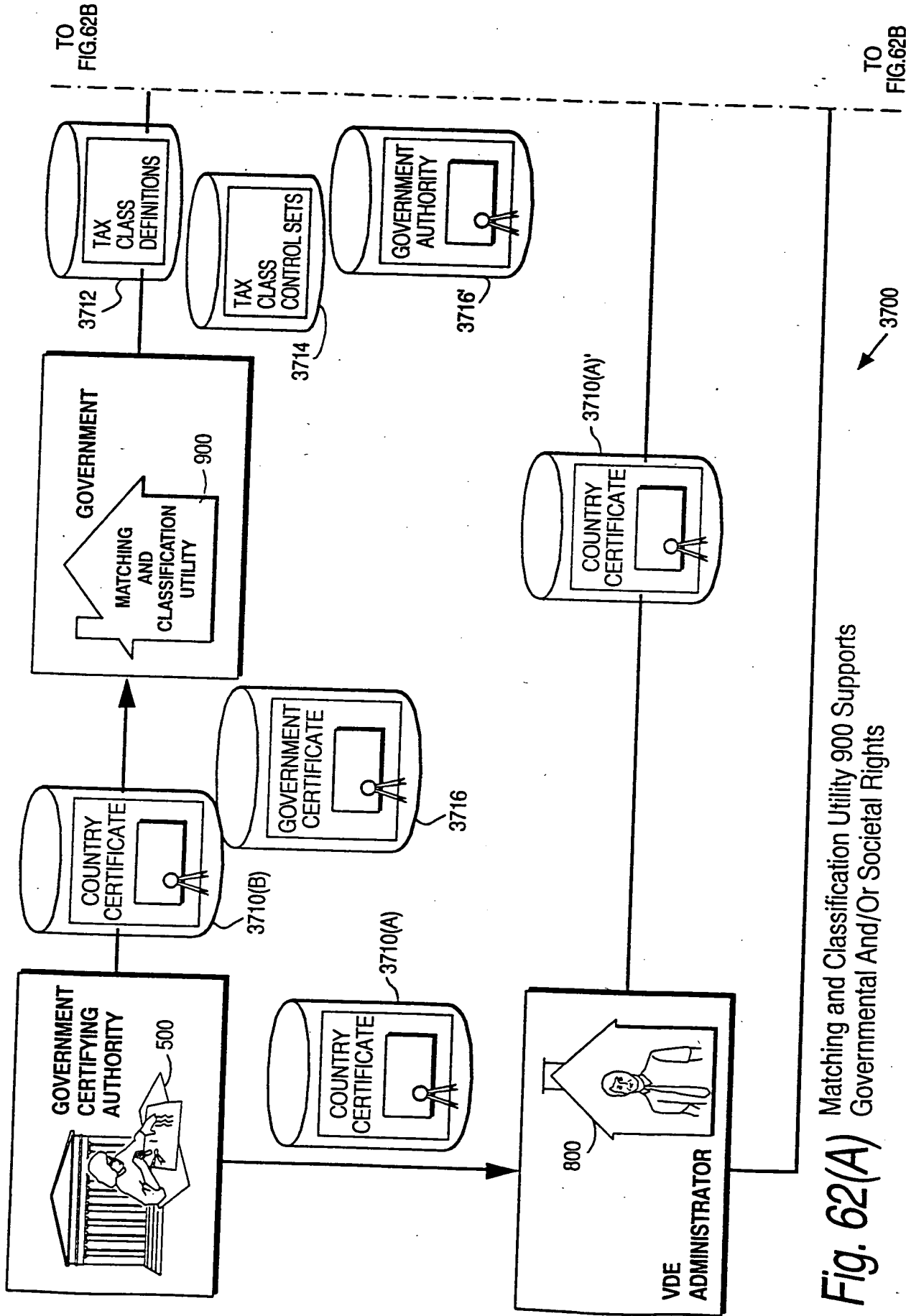
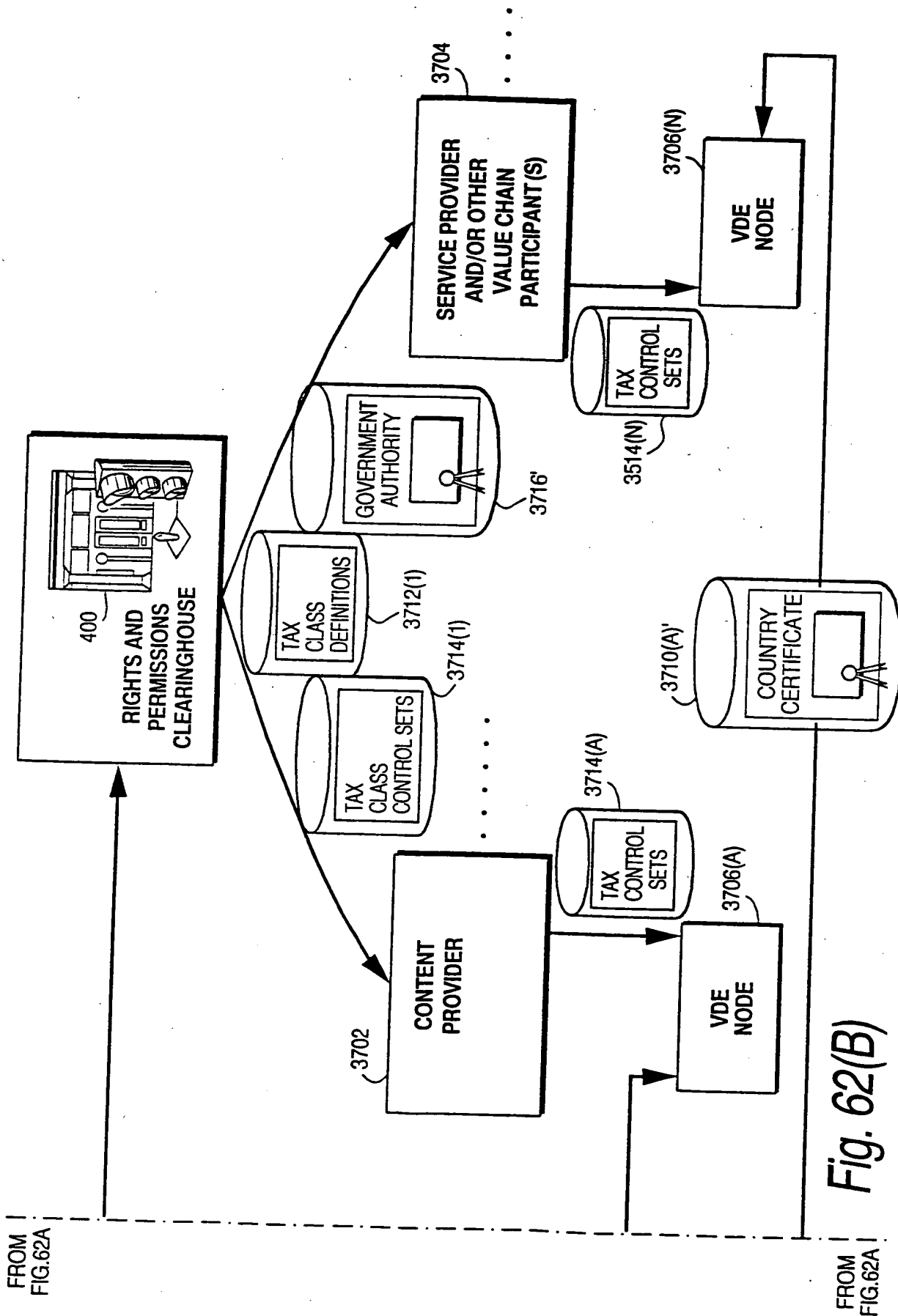


Fig. 61 Workflow Example



**Fig. 62(A)** Matching and Classification Utility 900 Supports Governmental And/Or Societal Rights



000020\* 69286160

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

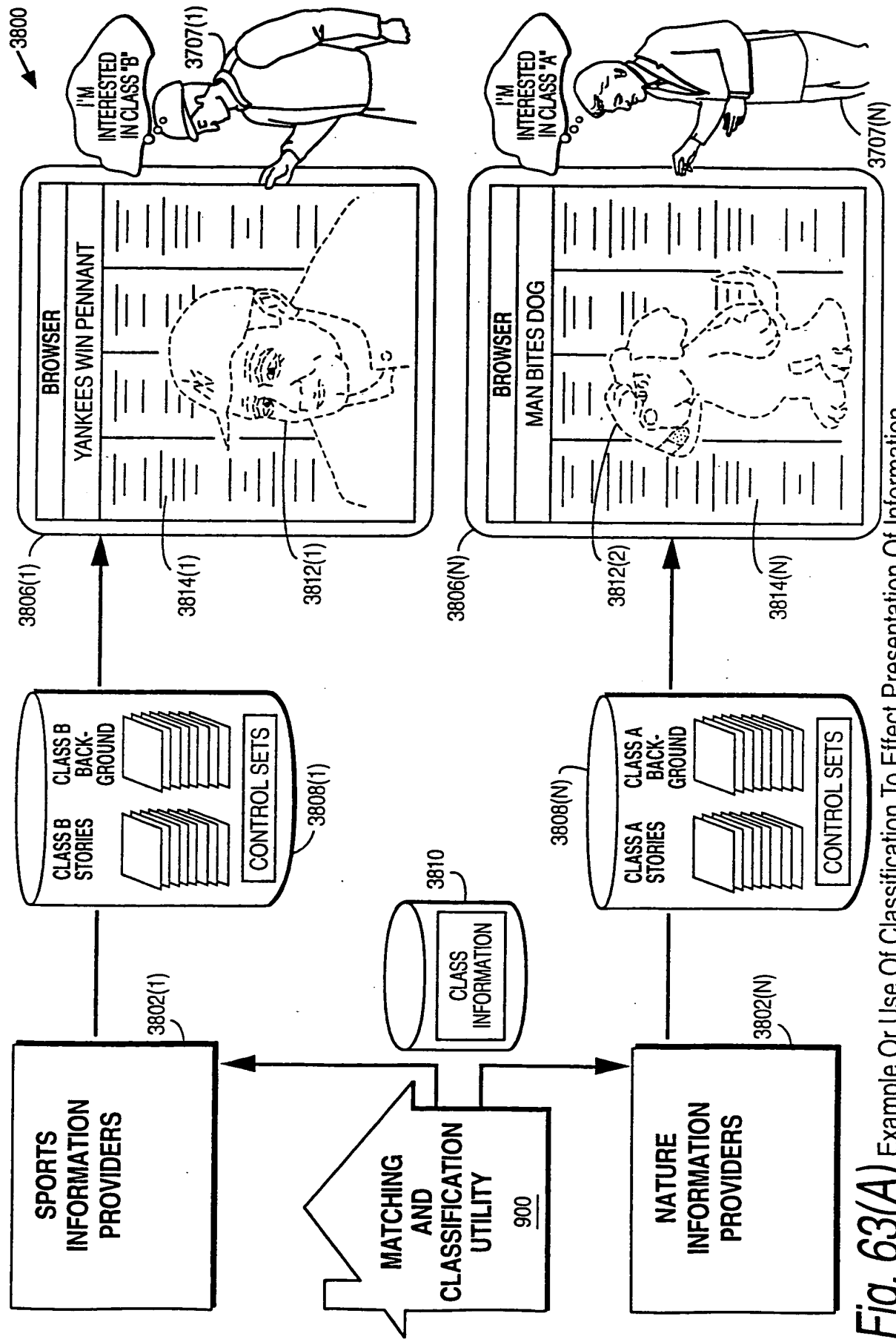
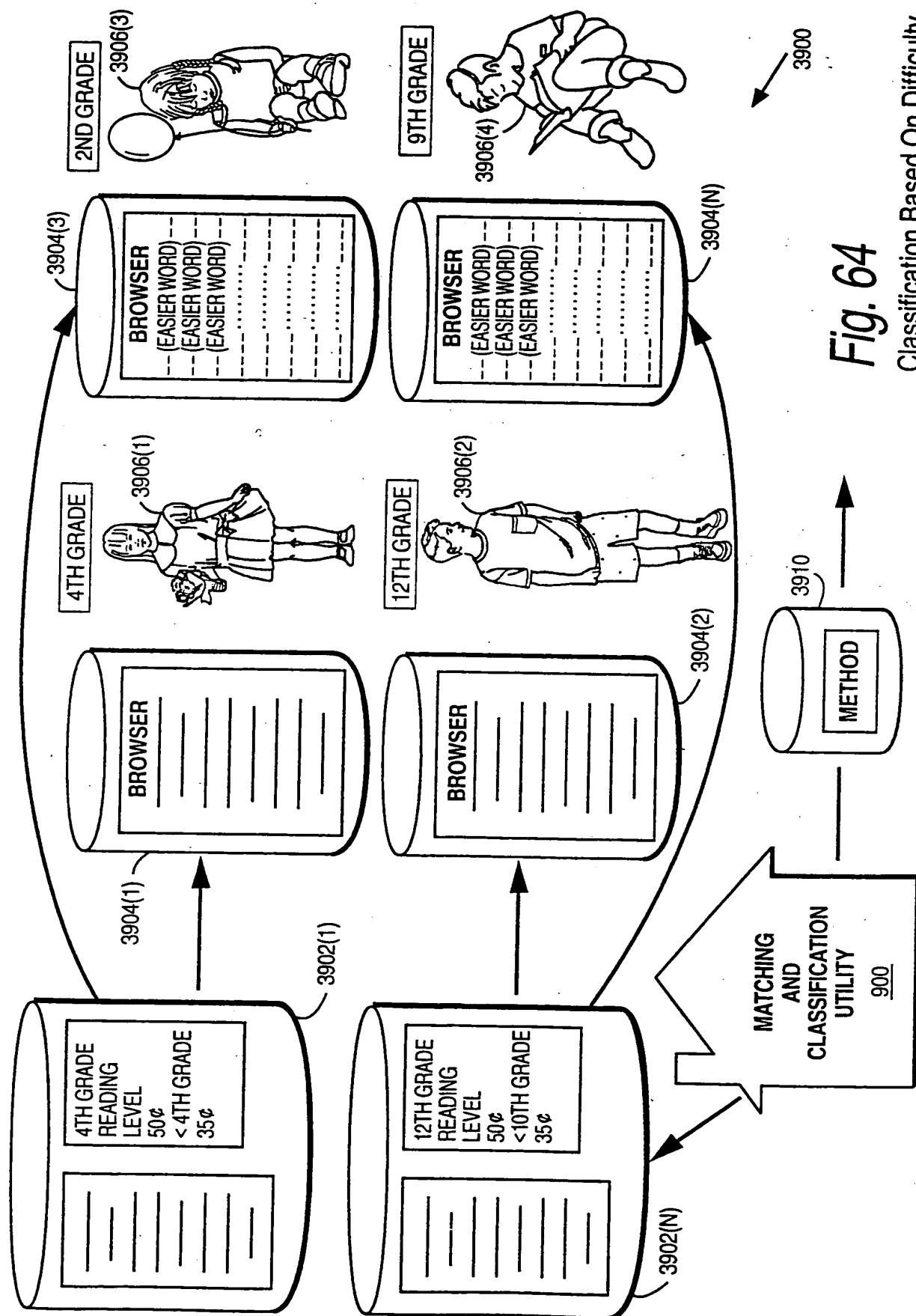


Fig. 63(A) Example Or Use Of Classification To Effect Presentation Of Information.







**Fig. 64**

Classification Based On Difficulty

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |

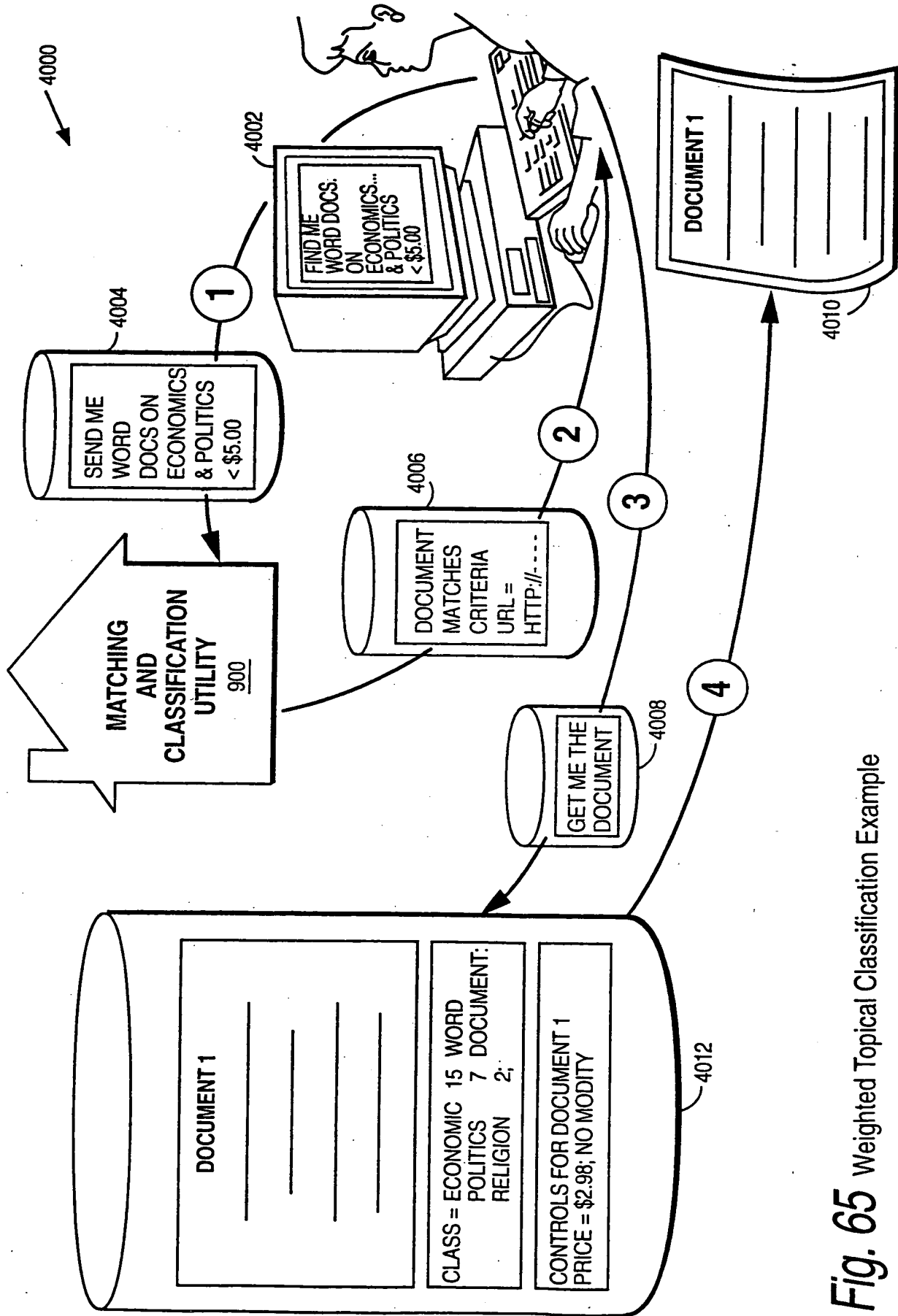
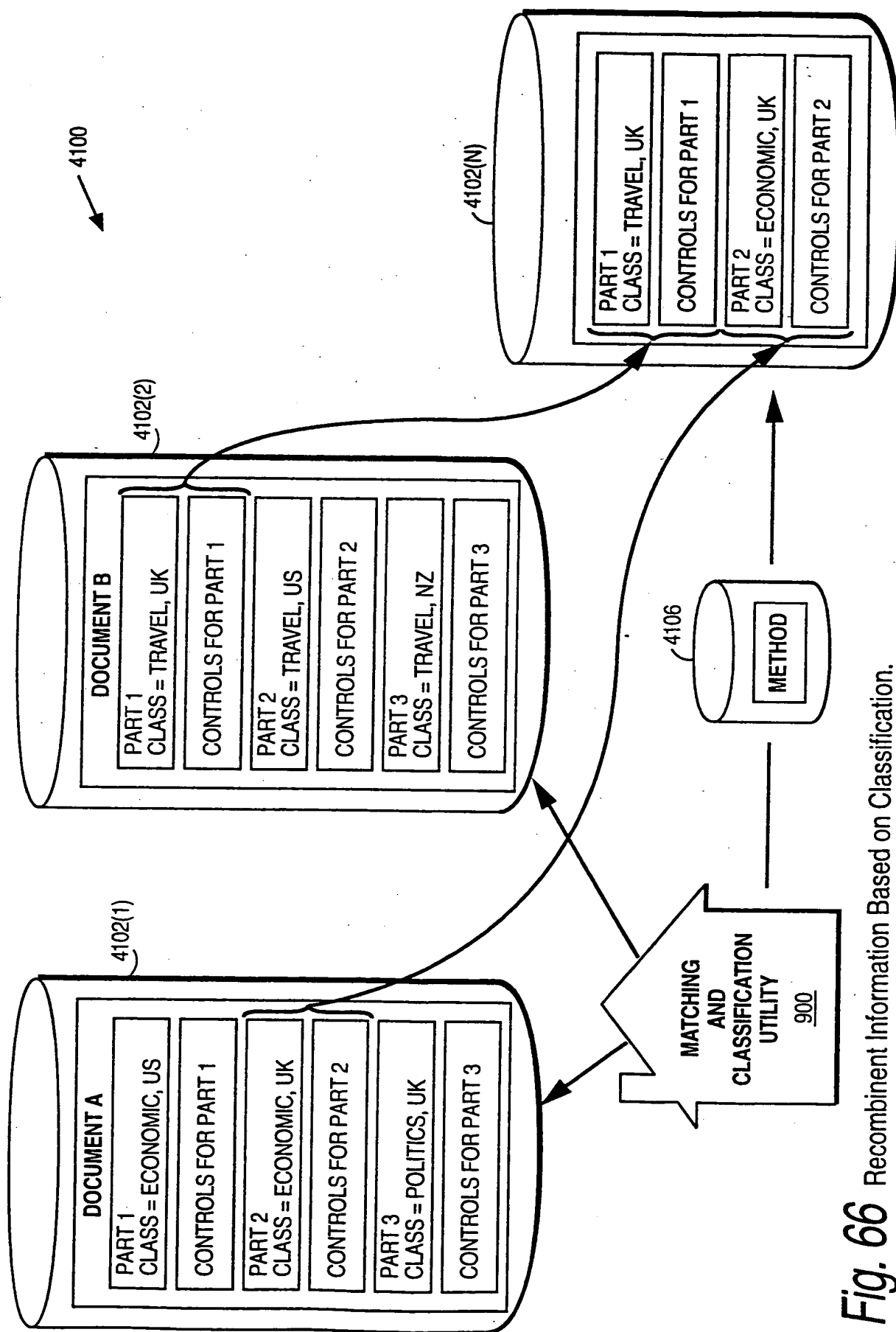


Fig. 65 Weighted Topical Classification Example



**Fig. 66** Recombinant Information Based on Classification.

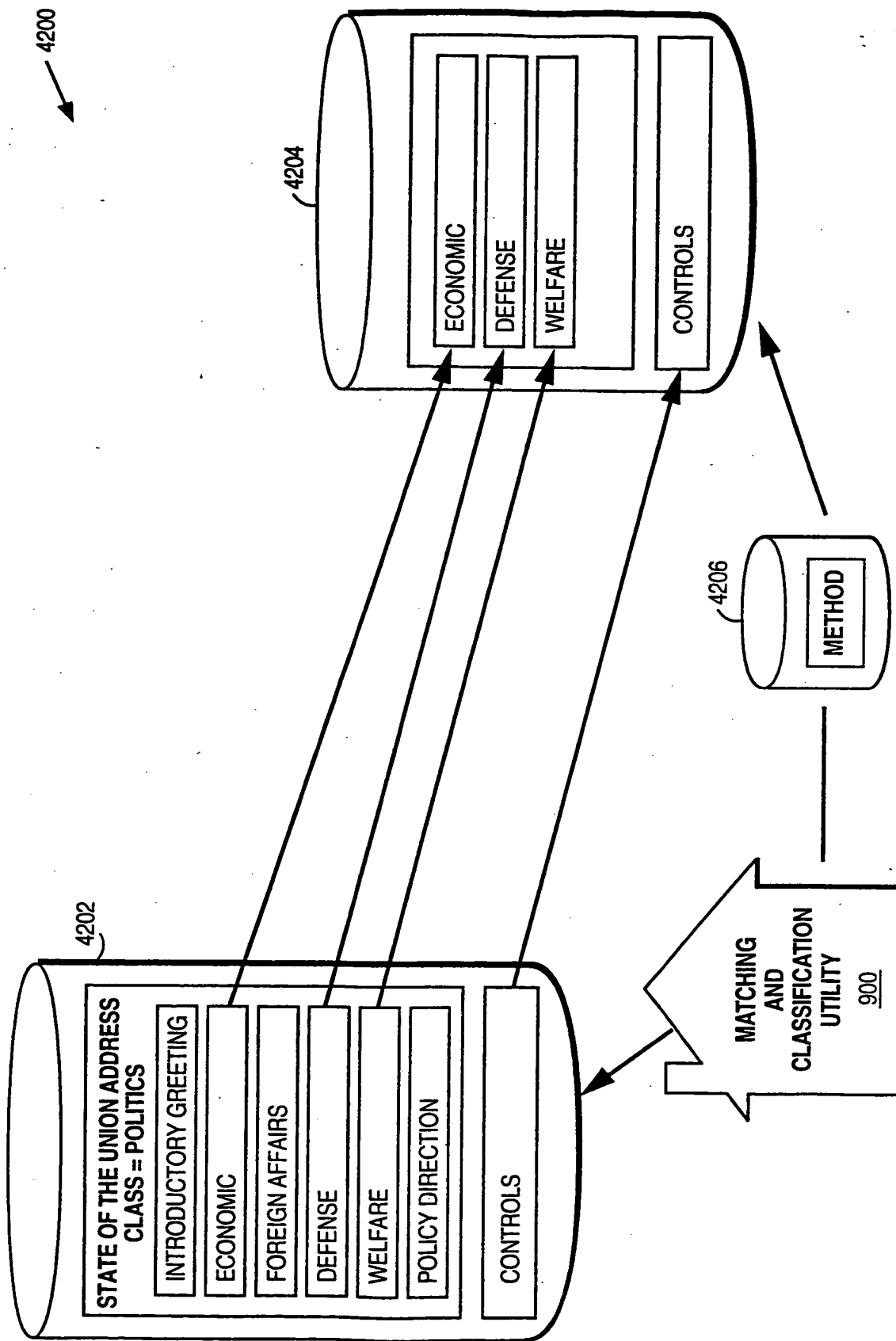
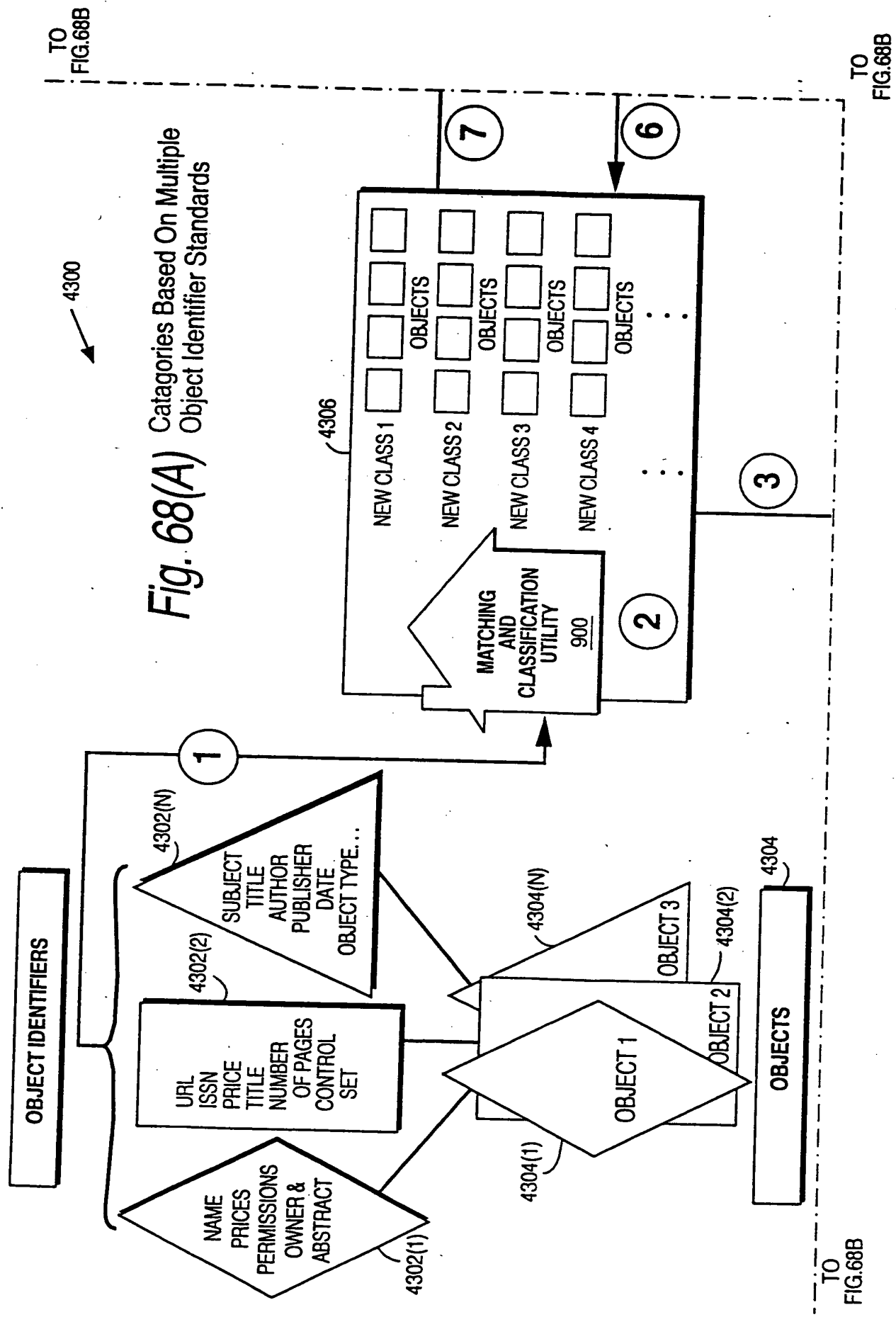
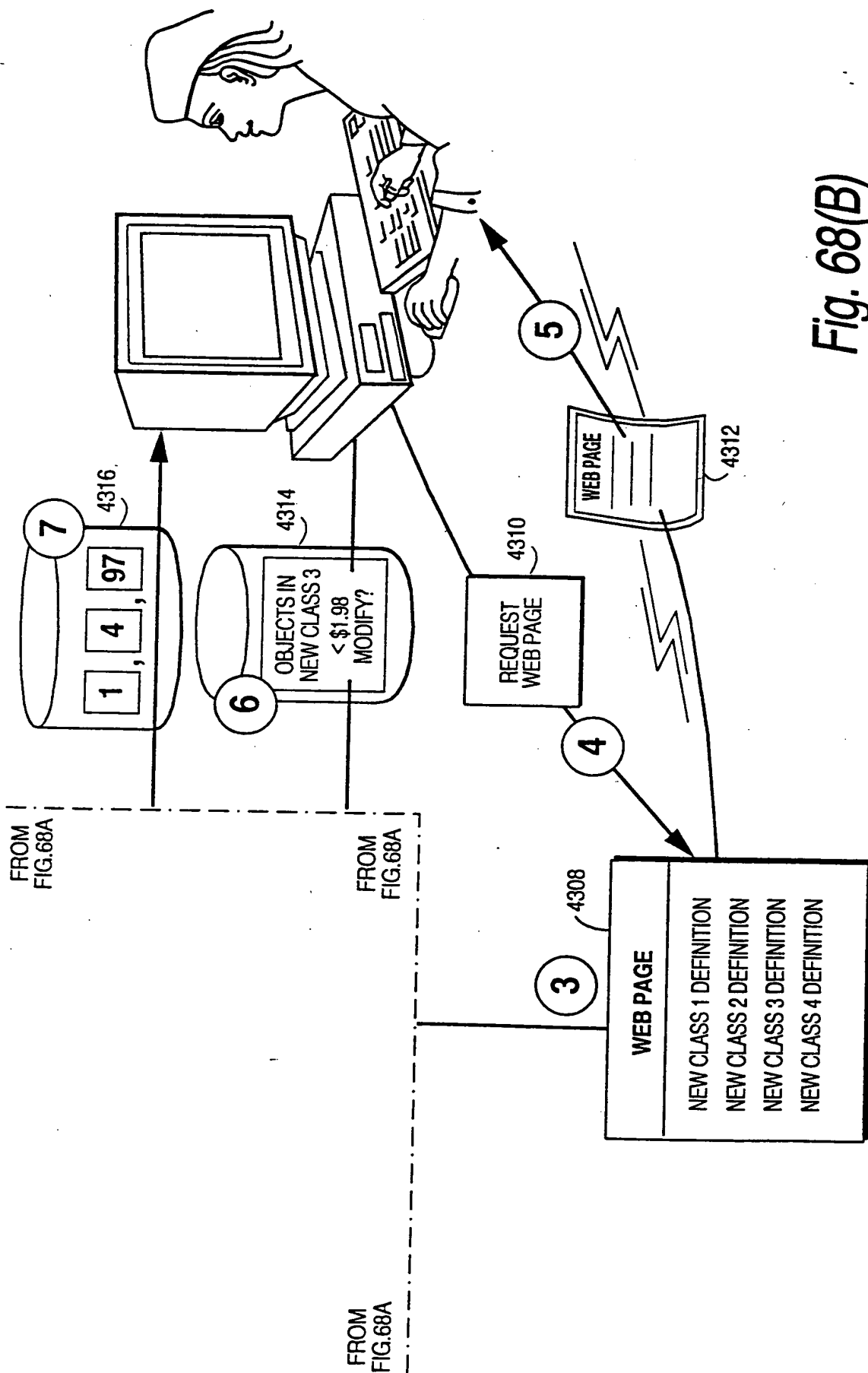


Fig. 67 Nested Classification.

000020 69266160

|           |           |          |
|-----------|-----------|----------|
| APPROVED  | O.G. FIG. |          |
| BY        | CLASS     | SUBCLASS |
| DRAFTSMAN |           |          |





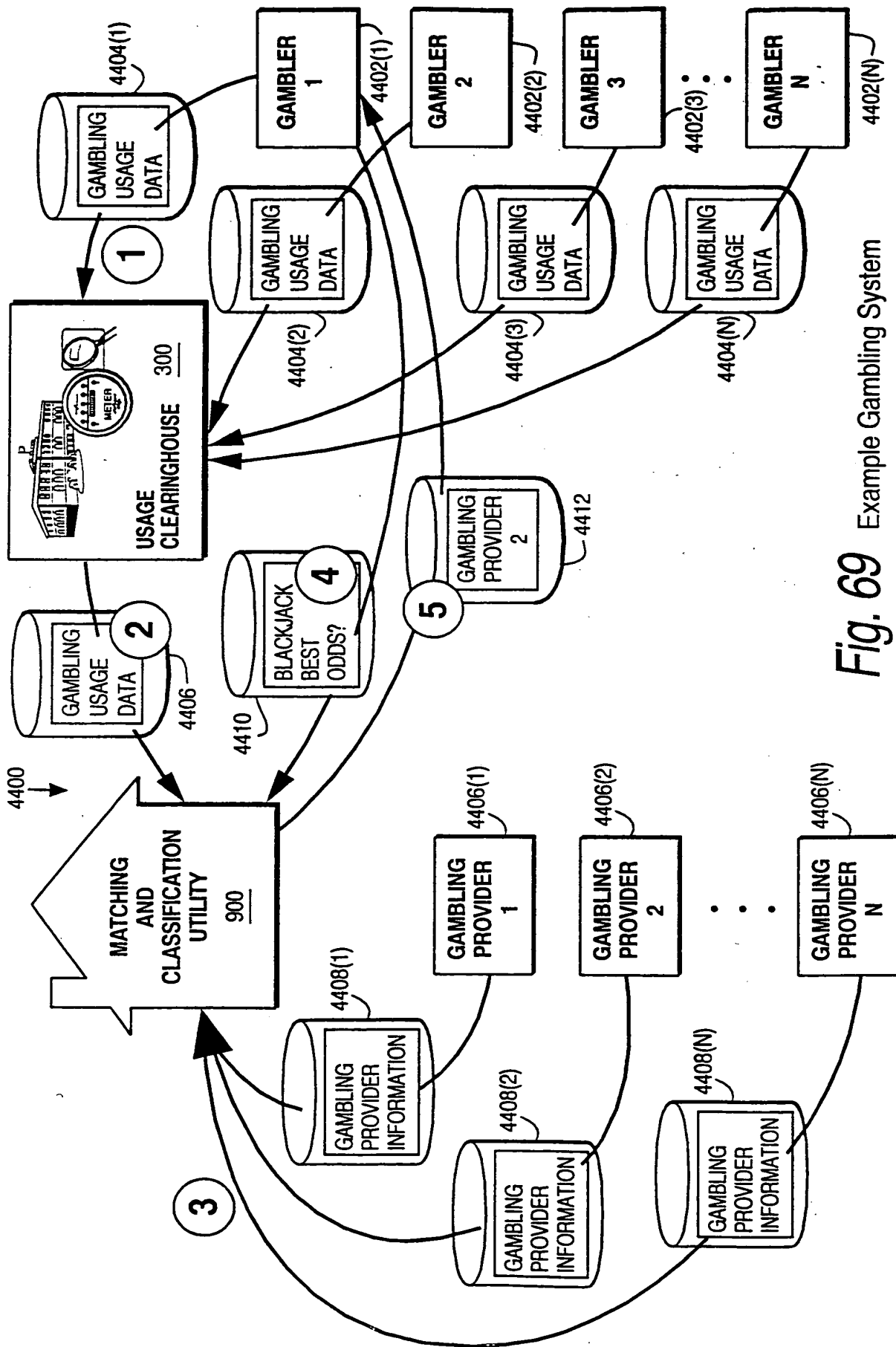


Fig. 69 Example Gambling System

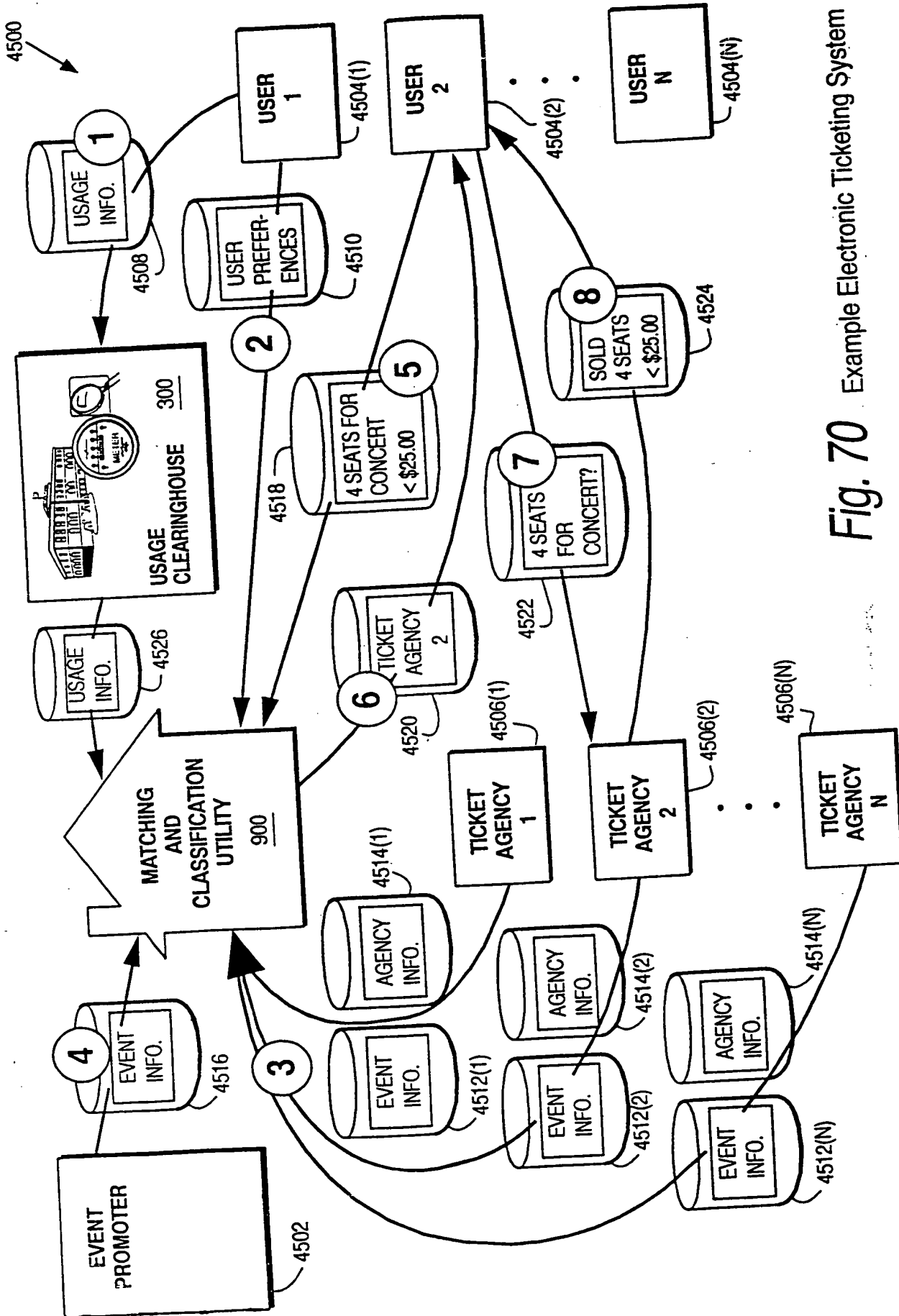


Fig. 70 Example Electronic Ticketing System